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LIST
OF THE
SPECIMENS
OF
LEPIDOPTEROUS INSECTS
IN
THE COLLECTION
OF THE
BRITISH MUSEUM.
BY
FRANCIS WALKER, F.L.S.
PART X.—NOCTUIDÆ.



304
National Museum

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P R E F A C E .

THE object of the present Catalogue is to give a complete list of all the genera and species of Noctuidæ known to exist in the different collections. The letters *a, b, c, &c.*, after the species, denote the specimens now contained in the British Museum, followed by the *habitat* and the mode in which each of them was obtained, and the absence of these *letters* indicates the species which are desiderata, and therefore desirable to be procured for the collection.

JOHN EDWARD GRAY.

British Museum,

December 29, 1856.

ARTICLE

REPORT

The object of the present report is to give a list of all the persons who have been known to exist in the United States since the year 1800, after the separation of the colonies from the British Empire. It is intended to be a list of all the persons who have been known to exist in the United States since the year 1800, after the separation of the colonies from the British Empire. It is intended to be a list of all the persons who have been known to exist in the United States since the year 1800, after the separation of the colonies from the British Empire.

EDWARD GRAY

CATALOGUE

OF

LEPIDOPTERA HETEROCERA.

THIRD SERIES.

Fam. NOCTUIDÆ (*continued*).

Genus 10. MIANA.

Corpus mediocriter validum. Proboscis mediocriter longa. Palpisubascendentes; articulus 3us lanceolatus, 2i triente vix brevior. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas perpaullo superans. Pedes graciles; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam subrectæ, apice subrotundatæ, margine exteriore subrecto mediocriter obliquo.

Apamea, p., *Treit.*; *Boisd.*; *Dup.*; *Herr.-Schæff.*

Oligia, p., *Hübner*. *Verz. Schmett.*

Phytometra, p., *Haw.*

Miana, *Steph.*; *Guén.*

Acosmetia, p., *Steph.*

Caradrina, p., *Boisd.*

Body moderately stout. Proboscis moderately long. Palpi slightly ascending; third joint lanceolate, almost one-third of the

length of the second. Antennæ simple, more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs slender; hind tibiæ with four long spurs. Wings moderately broad. Fore wings almost straight in front, somewhat rounded at the tips, moderately oblique and nearly straight along the exterior border; fourth inferior vein hardly remote from the others, which are approximate.

1. MIANA STRIGILIS.

Nigro-fusca; abdomen cinereo-fuscum; alæ anticæ cupreo sub-tinctæ, lineis transversis undulatis duplicatis obscurioribus, fascia angusta undulata submarginali cervina; posticæ cinereo-fuscæ.

—————, *Engr. Pap. d'Eur.* 551, a—c.

Phalæna-Noctua strigilis, *Linn. Syst. Nat.* i. 516; *Faun. Suec.* 1199. *Clerck, Icon. Ins.* pl. 9, f. 6. *Gmel. ed. Syst. Nat.* i. 5, 2569, 1151.

Noctua strigilis, *Fabr. Mant. Ins.* ii. 172, 245; *Ent. Syst.* iii. 2, 102, 304. *Esp. Schmett.* pl. 146, f. 1, 2. *Bork. Eur. Schmett.* 81. *Haw. Lep. Brit.* 146, 214. *Dup. Hist. Nat. Lép. Fr.* iv. 12, pl. 101, f. 2.

Noctua præduncula, *Wien. Verz.* 89, 2. *Bork. Eur. Schmett.* iv. 185, 81. *Hübner. Samml. Eur. Schmett. Noct.* pl. 20, f. 95.

Noctua latruncula, *Wien. Verz.* 89, 1. *Bork. Schmett.* iv. 174, 22. *Esp. Schmett.* iv. pl. 146, f. 4—6. *Hübner. Eur. Schmett. Noct.* pl. 20, f. 94. *Dup. Hist. Nat. Lép. Fr.* vii. pl. 101, f. 1.

Noctua furuncula, *Bork. Schmett.* iv. 176, 74.

Apamea latruncula, *Treit. Schmett.* v. 1, 98, 7.

Noctua (Apamea) latruncula, *Meig. Syst. Besch.* iii. 146, 115, pl. 95, f. 10; pl. 105, f. 6.

Noctua meretricula, *Bork. Eur. Schmett.* iv. 187.

Noctua ærata, *Esp. Schmett.* iv. pl. 146, f. 4—6.

Noctua latruncula, *Wien. Verz.* 89.

Noctua Æthiops, *Haw. Lep. Brit.* 215.

Noctua (Apamea) strigilis, *Meig. Syst. Besch.* iii. 214, 338.

Oligia strigilis, *Hübner. Verz. Schmett.* 213, 2126.

Oligia latruncula, *Hübner. Verz. Schmett.* 213, 2124.

Apamea strigilis, *Treit. Schmett.* v. 2, 102, 8. *Boisd. Ind. Méth.* 116, 901. *Herr.-Schæff. Eur. Schmett.* ii. 284, 320.

Apamea latruncula, *Herr.-Schæff. Eur. Schmett.* ii. 284, 321.

Var. *Alæ anticæ rubricatæ, strigis maculisque pallidioribus; posticæ nigro-cinereæ.*

Apamea rubeuncula, *Donzel, Ann. Soc. Ent. Fr.* vii. 430, pl. 12, f. 3, 4. *Herr.-Schæff. Schmett. Eur.* ii. 284, 319, pl. 97, f. 499—501.

Mont-Louis, Eastern Pyrenees.

Var.

———, *Engr. Pap. d'Eur.* 550, b.

Noctua fasciuncula, *Haw. Lep. Brit.* 151, 215.

Miana fasciuncula, *Steph. Ill. Brit. Ent. Haust.* iii. 15. *Westw. & H. Brit. Moths*, i. 181, pl. 38, f. 10.

Var.

———, *Engr. Pap. d'Eur.* 549.

Noctua strigilis, *Esp. Schmett.* 146, f. 3.

Miana strigilis, *Steph. Ill. Brit. Ent. Haust.* iii. 12. *Westw. & H. Brit. Moths*, i. 181, pl. 38, f. 2—4. *Guén. Noct.* i. 214, 338.

Miana latruncula, *Steph. Ill. Brit. Ent. Haust.* iii. 13.

Miana æthiops, *Steph. Ill. Brit. Ent. Haust.* iii. 13. *Westw. & H. Brit. Moths*, i. 181, pl. 38, f. 4.

a—kkk. England. From Mr. Stephens' collection.

lll—qqq. England.

rrr—vvv. Europe. From M. Becker's collection.

uuu. Europe. From Mr. Milne's collection.

www. ———?

2. MIANA ERRATRICULA.

Fusco-cinerea; abdomen pallide cinerascens; alæ anticæ lituris discalibus nigris albisque, strigis costalibus, lineolis marginalibus inter venas punctisque nonnullis nigris; posticæ cinereæ.

———, *Engr. Pap. d'Eur.* 238.

Noctua erratricula, *Hübner. Samml. Eur. Schmett.* 537.

Oligia erratricula, *Hübner. Verz. Schmett.* 213, 2128.

Apamia suffuruncula, *Ochs. Syst.* iv. 76. *Treit. Schmett. Eur.* ii. 97. *Boisd. Ind Méth.* 116, 902.

Noctua literosa, *Haw. Lep. Brit.* 144.

Miana literosa, *Steph. Ill. Brit. Ent. Haust.* iii. 12, pl. 25, f. 1.

Noctua latruncula, *Frey. Neu. Beit. Schmett.* ii. 81, pl. 42.

Miana erratricula, *Guén. Noct.* i. 216, 339.

a—g. England. From Mr. Stephens' collection.

3. MIANA FURUNCULA.

Cervina; abdomen testaceum, subcinereum, fasciculis nigricantibus; alæ anticæ fusco transverse sublineatæ, strigis tribus discalibus abbreviatis nigricantibus, margine exteriori cinereo; posticæ subcinereæ, margine fusciscente.

———, *Engr. Pap. d' Eur.* 550.

Noctua furuncula, *Wien. Verz.* V. 3.

Apamea furuncula, *Treit. Schmett. Eur.* ii. 92. *Boisd. Ind. Méth.* 116, 903.

Miana furuncula, *Guén. Noct.* i. 216, 340.

Noctua bicoloria, *Bork. Eur. Schmett.* iv. 190, 85.

Noctua humeralis, *Haw. Lep. Brit.* 149.

Miana humeralis, *Steph. Ill. Brit. Ent. Haust.* iii. 14. *Westw. and H. Brit. Moths*, i. 180, pl. 38, f. 5—8.

Noctua furuncula, var., *Dup. Hist. Nat. Lép. Fr.* 8.

Noctua victuncula, *Hüb. Eur. Schmett. Noct.* pl. 20, f. 96.

Oligia victuncula, *Hüb. Verz. Schmett.* 213, 2127.

Noctua terminalis, *Haw. Lep. Brit.* 215.

Noctua rufuncula, *Haw. Lep. Brit.* 216.

Apamea suffruncula, *Boisd. Ind. Méth.* 116, 902.

Apamea erratricula, *Herr.-Schæff. Eur. Schmett.* ii. 285, 323.

Miana terminalis, *Steph. Ill. Haust.* iii. 14.

Miana rufuncula, *Steph. Ill. Haust.* iii. 14. *Westw. & H. Brit. Moths*, i. 180, pl. 38, f. 9.

Noctua Pulmonariæ, *Dup. Hist. Nat. Lép. Fr.* iv. 47, pl. 75.

Oligia furuncula, *Hüb. Verz. Schmett.* 213, 2125.

Apamea furuncula, *Boisd. Ind. Méth.* 116, 903. *Herr.-Schæff. Eur. Schmett.* ii. 284, 322.

a, b. England. Presented by W. Wing, Esq.

c—ll. England. From Mr. Stephens' collection.

mm—nn. England.

oo—qq. Europe. From M. Becker's collection.

4. MIANA BIPARTITA.

Fusca; alæ anticæ fasciis undulatis maculisque cervinis, linea transversa undulata alba apud maculæ reniformis marginem exterioriorem; posticæ cinereæ, basi ciliisque pallidioribus.

Apamea bipartita, *Herr.-Schæff. Schmett. Eur.* ii. 285, pl. 35, f. 175.

Miana bipartita, *Guén. Noct.* i. 218, 341.

Sicily.

5. MIANA CAPTIUNCULA.

Nigricans ; *alæ anticæ cervinæ, basi fusco strigatæ, fascia lata media fusca-nigro conspersa albido marginata antice cervino varia, margine exteriori nigricante.*

Var. *Alæ anticæ basi nigricantes cervino conspersæ.*

Apamea captiuncula, Treit. Schmett. Eur. ii. 96 ; Suppl. x. 66. Eversm. Faun. Volg-Ural. 242. Herr.-Schæff. Schmett. Eur. ii. 283, 317, pl. 35, f. 173, 174. Boisd. Ind. Méth. 116, 904.

Noctua captiuncula, Dup. Hist. Nat. Léop. Fr. iv. 282, pl. 117.

Miana captiuncula, Guén. Noct. i. 218, 343.

Styria, South Russia.

a, b. Europe. From M. Becker's collection.

6. MIANA SIGNALIS.

Ferrugineo-rufa ; *abdomen cinereum* ; *alæ anticæ gutta discali interiore lineisque tribus transversis exterioribus cinereis, macula discali inter guttam et fascias alba* ; *posticæ cinereæ, basi albidæ.*

Apamea signalis, Treit. Schmett. Eur. vii. 70 ; Suppl. 149. Herr.-Schæff. Schmett. Eur. ii. 283, 316, pl. 35, f. 176, 177. Boisd. Ind. Méth. 117, 908.

Noctua signalis, Frey. Neu. Beit. Schmett. iv. pl. 360 f. 5. Dup. Hist. Nat. Léop. Fr. Suppl. iv. 529, pl. 90.

Miana signalis, Guén. Noct. i. 218, 344.

Hungary.

7. MIANA ARCUOSA.

Testacea ; *alæ posticæ cinereæ.* Fœm.—*Alæ parvæ* ; *anticæ fasciis indistinctis obscurioribus, nigro subconsersæ.*

Phytometra arcuosa, Haw. Lep. Brit. 260, 17.

Noctua minima, Haw. Lep. Brit. 216, 153.

Acosmetia arcuosa, Steph. Ill. Brit. Haust. iii. 123. Westw. & H. Brit. Moths, i. 245, pl. 54, f. 7.

Miana arcuosa, Guén. Noct. i. 218, 345.

Miana minima, Steph. Ill. Brit. Haust. iii. 15.

Noctua Airæ, Frey. Neu. Beit. Schmett. ii. pl. 162, f. 1—3.

Apamea Duponchelii, Herr.-Schæff. Eur. Schmett. ii. 284, 318, pl. 35, f. 178, 179.

Caradrina Duponchelii, *Boisd. Ind. Méth.* 905. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 307, pl. 28.

This species seems to be nearly allied to *Acosmetia caliginosa*.

a, b. England. Presented by E. Doubleday, Esq.

c—n. England. From Mr. Stephens' collection.

o—q. England.

r. Scotland? From Mr. Foxcroft's collection.

North America.

8. MIANA UNDULIFERA.

Nigro-cinerea; abdomen pallide cinereum; alæ anticæ lituris basalibus et costalibus lineaque exteriore transversa undulata nigra, lituris basalibus guttisque costalibus testaceis, fascia lata marginali testacea fusco varia, maculis reniformi et orbiculari oblongis obliquis fusco lineatis; posticæ pallide cinereæ, macula discali fasciisque duabus fuscis.

Blackish cinereous. Abdomen pale cinereous. Fore wings with blackish marks towards the base and along the costa, and with a black exterior undulating transverse line; some testaceous marks near the base, and some dots of the same hue along the costa, and a broad testaceous brown varied marginal band; orbicular and reniform spots oblong, oblique, each enclosing a brown ringlet. Hind wings pale cinereous, with a brown discal spot and two exterior brown bands. Length of the body 4 lines; of the wings 10 lines.

a. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

South America.

9. MIANA SUBRUBENS.

Palpi subrufescentes; antennæ simplices; pedes validi, longi; alæ anticæ fusco-cinereæ, nitentes, apud marginem internum albedo-varia; posticæ albidæ.

Miana subrubens, *Guén. Noct.* i. 219, 346.

Brazil.

Africa.

10. MIANA ADACTRICULA.

M. furunculæ similis; alæ anticæ paullo breviores et latiores, testaceo-cinereæ, dimidio basali rufo-fusco, linea transversa media subundulata nigra, macula reniformi guttam nigram fingente, ciliis nigricantibus; posticæ nigro-cinereæ.

Miana adactricula, Guén. Noct. i. 218, 342.

Abyssinia.

Country unknown.

11. MIANA INVISA.

Mas. Pallide fusca; thorax fasciis obscurioribus cristaque postica nigricante; abdomen cinereum, cristatum; alæ anticæ gutta basali nigricante, lineis transversis undulatis pallidis fusco marginatis, fascia cervina exteriori punctisque marginalibus obscure fuscis; posticæ cinereæ, ciliis testaceis interlineatis.

Male. Pale brown. Thorax with darker bands, and with a blackish hind crest. Abdomen cinereous, crested. Fore wings with a blackish discal dot near the base, with transverse undulating pale dark brown-bordered lines, with a fawn-coloured exterior band, and with dark brown marginal points. Hind wings cinereous, with testaceous interlined ciliæ. Length of the body $3\frac{1}{2}$ lines; of the wings 10 lines.

a. ———?

Genus 11. CELÆNA.

Corpus mediocriter robustum. Proboscis mediocriter longa. Palpi porrecti, pilosi; articulus 3us lanceolatus, 2i trientis non brevior. Antennæ corporis dimidio longiores. Abdomen alas posticas vix superans. Pedes validi; tibiæ posticæ calcaribus quatuor mediocriter longis. Alæ mediocriter latæ, non longæ; anticæ apud costam subrectæ, apice angulatæ, margine exteriori convexo subobliquo. *Mas.*—Antennæ subcrenulatæ.

Celæna, Steph. Ill. Brit. Haust. ii. 15. Guén.

Apamea, p., Curt.

Bryophila, p., Treits.

Neuria, p., Herr.-Schæff.

Body moderately stout. Proboscis moderately long. Palpi porrect, pilose; third joint lanceolate, about one third of the length of the second. Antennæ more than half the length of the body. Thorax very pilose. Abdomen hardly extending beyond the hind wings. Legs stout; hind tibiæ with four moderately long spurs. Wings moderately broad, not long. Fore wings nearly straight in front, slightly angular at the tips, slightly oblique, and somewhat convex along the exterior border. *Male*.—Antennæ slightly crenulate.

Europe.

1. CELÆNA HAWORTHII.

Lunula centralis subnigra; alæ anticæ fusco subrubræ nitidæ, vel fusco subnigro et subrubro variatæ, vel fusco violaceæ, vel fusco subnigræ; maculis duabus ordinariis subferrugineis, vel luteo cinereo-rufulis pallidis, vel fere albidis; orbiculari rotunda; reniformi intus subinclinata, inferne extrinsecus projecta quadrata, sæpe venulis duabus albidis externis; maculis externis fusco-nigris sagittatis; alæ posticæ cinereo fuscæ pallide, nitidæ, cinereo-fusco late circumdatæ.

Var. Minor caput et thorax ferruginosa; alæ anticæ fasciis apud marginem anteriorem pallidioribus, macula discali interiore majore, anteriore plus elongata, macula postica magis determinata.

Apamea Haworthii, *Curt. Brit. Ent.* vi. pl. 260. *De Graslin, Ann. Soc. Ent. Fr. 2me Sér.* vi. 58, pl. 1, No. 1, f. 3—6. *Herr.-Schæff. Schmett. Eur.* 467, 1, 68.

Apamea tripuncta, *Curt. Brit. Ent.* vi. 260.

Celæna Haworthii, *Steph. Ill. Brit. Ent. Haust.* iii. 16, pl. 23, f. 3. *Guén. Noct.* i. 220, 347.

Celæna Hibernica, *Steph. Ill. Brit. Ent. Haust.* iii. 17.

Celæna lancea, *Steph. Ill. Brit. Ent. Haust.* iii. 18.

Noctua Morio, *Eversm. Bull. Soc. Imp. Nat. Mosc.* iii. 550.

Noctua erupta, *Frey. Beitr.* v. 150, pl. 472, f. 1, 2.

Neuria Haworthii, *Herr.-Schæff. Eur. Schmett.* ii. 293, 346, pl. 91, f. 467, 468.

a—k. England. From Mr. Stephens' collection.

l, m. Scotland. From Mr. Foxcroft's collection.

n, o. England.

2. CELÆNA DIGRAMMA.

Fusca; alæ anticæ radiis 2 albis, altero latiore apice trifido, altero tenuiore apice bifido; punctis nigris inter ramos radiorum serie dispositis; inter radios ipsos macula et lunula alba; apice cinereo ciliatæ; posticæ albescentes apice subumbroso, medio lunula fuscescente.

Noctua digramma, Fischer, Entomograph. Imp. Russ. pl. 3, f. 18.

Thon, Archiv. i. 3 (1828). Metzner, Ent. Zeit. Stett. v. 190.

Celæna Haworthii, var.?

Desert of Tartary, South Russia.

North America.

A. Alæ anticæ viridi variæ. - - - herbimacula, *Guén.*

B. Alæ anticæ viridi non variæ.

A. Alæ anticæ rufo variæ.

A. Alæ anticæ non vittatæ. - - - chalcedonia, *Hübner.*

B. Alæ anticæ vitta albida. - - - festivoides, *Guén.*

B. Alæ anticæ rufo non variæ.

A. Alæ anticæ cervinæ.

a. Alæ posticæ marginatæ. - - - exesa, *Guén.*

b. Alæ posticæ non marginatæ. - - - punctifera, *Walk.*

B. Alæ anticæ non cervinæ.

a. Alæ anticæ late fasciatæ. - - - egens, *Walk.*

b. Alæ anticæ non late fasciatæ.

i. Alæ posticæ albæ. - - - Arna, *Guén.*

ii. Alæ posticæ albidæ aut cinereæ.

* Alæ anticæ guttis exterioribus albidis.

infecta, *Walk.*

** Alæ anticæ fascia fusca. - subcedens, *Walk.*

*** Alæ anticæ lineis transversis albidis. erecta, *Walk.*

3. CELÆNA FESTIVOIDES.

Rufescente-cinerea; thorax fascia antica nigra; abdomen canescens; alæ anticæ lineis transversis angulosis incompletis nigris, maculis reniformi et orbiculari pallidis; posticæ canescentes. Mas.—Pallidior; abdomen valvis apicalibus longissimis luteo cinereoque pilosis; alæ anticæ maculis duabus discalibus nigris aut ferrugineis. Fœm.—Obscurior; alæ anticæ maculis duabus discalibus fuscis, macula subapicali pallide cervina.

Celæna festivoides, Guén. Noct. i. 220, 348.

a—e. Florida. Presented by E. Doubleday, Esq.

4. CELÆNA CHALCEDONIA.

Alæ anticæ angustæ, costam versus carneo-cinereæ, cinereo undulataæ, macula apicali pallido, dimidio postico nigro-cinereo, vitta media vaga alba, guttis marginalibus carneis; posticæ albæ, semihyalinæ, margine cinerascete.

Noctua chalcedonia, Hübn. Samml. Eur. Schmett. Noct. f. 404.

Bryophila chalcedonia, Treit. Schmett. Eur. i. 74.

Celæna chalcedonia, Guén. Noct. i. 221, 350.

North America.

5. CELÆNA ARNA.

Cinerea; thorax linea antica obscuriore; alæ anticæ fusco-cinereæ, lineis transversis duplicatis obscurioribus, striga apud maculam reniformem nigra, macula apicali pallida; alæ posticæ albæ, semihyalinæ, margine cinerascete.

Celæna Arna, Guén. Noct. i. 222, 351.

Florida.

6. CELÆNA EXESA.

Cervina; thorax nigro conspersus; abdomen canescens; alæ anticæ ex parte pallidiores, nigro variæ, maculis reniformi et orbiculari pallidis bene determinatis, venis ex parte nigris; posticæ canescentes, margine lato fuscescente.

Celæna exesa, Guén. Noct. i. 222, 352.

a, b. Florida. Presented by E. Doubleday, Esq.

7. CELÆNA HERBIMACULA.

Fuscescens; thorax fasciis undulatis pallidioribus; abdomen basi albidum, apice cervinum; alæ anticæ ex parte sæpissime rufescentes, maculis duabus posticis viridi-luteis, macula reniformi albo marginata viridi-luteo notata; posticæ albæ, margine fuscescente.

Var. *Alæ posticæ fusco-cinereæ.*

Celæna renigera, Steph. Ill. Brit. Haust. ii. 16.

Celæna herbimacula, Guén. Noct. i. 223, 354.

- a—e.* Trenton Falls, New York. Presented by E. Doubleday, Esq.
f. Illinois. Presented by E. Doubleday, Esq.
g. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.
h—l. Nova Scotia. From Lieut. Redman's collection.
m. ———?

8. CELÆNA PUNCTIFERA.

Mas. *Cinereo-cervina*; *thorax nigro conspersus*; *abdomen cinereum, apice cervinum*; *alæ anticæ lineis transversis angulosis strigisque nigricantibus, lunulis marginalibus nigris, maculis reniformi et orbiculari distinctis ex parte albido marginatis*; *posticæ cinereæ, basi ciliisque albidis*.

Male. Resembles *Xylina*. Cinereous fawn-colour. Thorax sprinkled with black. Abdomen cinereous, with fawn-coloured hairs at the tip. Fore wings with several blackish streaks and zig-zag transverse blackish lines, and with black lunules along the exterior border; orbicular and reniform spots distinct; their borders partly whitish. Hind wings cinereous, whitish at the base and with whitish ciliæ. Length of the bdy 5 lines; of the wings 12 lines.

- a.* United States. Presented by E. Doubleday, Esq.

9. CELÆNA INFECTA.

Fœm. *Murina*; *abdomen cinereum*; *alæ anticæ sat angustæ, lituris basalibus obscurioribus, lineis duabus transversis exterioribus e guttis albidis, costa margineque exteriori albido notatis*; *posticæ cinereæ*.

Female. Mouse-colour. Abdomen cinereous. Fore wings rather narrow, with some darker marks towards the base, and with two exterior transverse lines of minute whitish dots; some whitish marks on the costa and along the exterior border. Hind wings cinereous. Length of the body 4 lines; of the wings 10 lines.

- a.* Illinois. Presented by E. Doubleday, Esq.

10. CELÆNA EGENS.

Mas. *Cana*; *antennæ fulvæ*; *thorax linea antica fuscescente*; *alæ anticæ apud costam fuscescentes, fascia latissima fusco marginata maculas reniformem et orbicularem includente*; *posticæ cinereæ*.

Male. Hoary. Antennæ tawny. Thorax with a brownish line in front. Fore wings brownish along the costa, with a very broad fawn-coloured band, which is bordered with brown, and contains the reniform and orbicular spots; a third spot near the hind border and towards the base of the wing, rather larger than the orbicular spot. Hind wings cinereous. Length of the body $4\frac{1}{2}$ lines; of the wings 11 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

11. CELÆNA SUBCEDENS.

Fœm. *Cinerea; thorax antice nigro conspersus; alæ anticæ albido-cinereæ, lituris costalibus, marginalibus et apud venas fasciæque fuscis, macula reniformi lata, orbiculari oblonga; posticæ pallide cinereæ marginibus fusciscentibus.*

Female. Cinereous. Thorax speckled with black in front. Fore wings mostly whitish cinereous, with black marks on the costa, on the borders, on the veins, and on a brown band, which divides the reniform from the orbicular spot, and is abbreviated hindward; reniform spot broad, hardly reniform; orbicular spot oblong. Hind wings pale cinereous, with brownish borders; ciliæ whitish. Length of the body 5 lines; of the wings 12 lines.

a. Trenton Falls, New York. Presented by E. Doubleday, Esq.

12. CELÆNA ERECTA.

Mas. *Cinereo-fusca; thorax pilis erectis; alæ anticæ ex parte obscuriores, guttis costalibus lineisque quatuor transversis obliquis subundulatis albidis, maculis reniformi et orbiculari ex parte testaceis alido marginatis, ciliis fuscis; posticæ albidæ, marginibus fusciscentibus.*

Male. Cinereous-brown. Thorax with erect hairs. Abdomen cinereous. Fore wings partly darker brown, with some whitish dots towards the tip of the costa, and with four oblique slightly undulating whitish transverse lines, the submarginal one most distinct; reniform spot and orbicular spot partly testaceous, with whitish borders; ciliæ brown. Hind wings whitish, with brownish borders. Length of the body 6 lines; of the wings 12 lines.

a. East Florida. Presented by E. Doubleday, Esq.

West Indies.

13. CELÆNA AGROTINA.

Carnea; thorax antice obscurior, nigro varius; abdomen carneo cinereoque subfasciatum; alæ anticæ postice nigro-cinereæ, inter lineas medianas fusco tinctæ, maculis reniformi et orbiculato distinctis parvis rotundatis, punctis marginalibus carneis; posticæ albæ, subhyalinæ, margine subcinerascente.
 Mas.—Abdomen valde depressum.

Celæna agrotina, Guén. Noct. i. 221, 349.

Cuba. Brazil.

South America:

- A. Alæ anticæ maculis discalibus albis. - Conchylis, *Guén.*
 B. Alæ anticæ maculis nullis discalibus albis.
 A. Alæ posticæ nigro-cinereæ. - - - Nævia, *Guén.*
 B. Alæ posticæ cinereæ.
 a. Alæ anticæ rufescentes, nigro variæ.
 a. Alæ anticæ guttis albidis.
 i. Macula orbicularis alba. - - dislocata, *Walk.*
 ii. Macula orbicularis obsoleta. - - tepens, *Walk.*
 b. Alæ anticæ guttis nullis albidis. - fervens, *Walk.*
 b. Alæ anticæ nigræ, rufo variæ. - Carbunculus, *Moriz.*
 C. Alæ posticæ subferrugineæ. - - - Hylea, *Cram.*

14. CELÆNA NÆVIA.

Mas. Nigro-fusca; alæ anticæ lineis medianis geminatis remotis, parte mediana castaneo fusca, macula orbiculari rotunda nigro varia, reniformi angusta, lineola nigra contigua, macula apicali pallida; posticæ nigro-cinereæ.

Celæna Nævia, Guén. Noct. i. 223, 353.

Brazil.

15. CELÆNA CONCHYLIS.

Mas. Flavo-purpurascens; alæ anticæ fusco-rufescentes, apud medium violaceo tinctæ, maculis tribus argenteo-albis, 1a orbiculari maxima integra maxima subtrigona, 3a reniformi flavo interlineata; posticæ sordide albidæ, margine, lunula discali lineaque mediana obscurioribus.

Celæna conchylis, Guén. Noct. i. 223, 355.

Brazil.

16. CELÆNA DISLOCATA.

Rufo-ferruginea ; abdomen cinereum ; alæ anticæ lituris costalibus et discalibus lineaque transversa exteriore undulata testaceis, nebula cinerea extus maculam reniformem indistinctam, orbiculari alba, guttis nonnullis costalibus et marginalibus albidis ; posticæ cinereæ, marginibus fuscescentibus.

Reddish ferruginous. Abdomen cinereous. Fore wings with testaceous marks along the costa and in the disk, and with an exterior transverse undulating testaceous line; a dark cinereous tinge beyond the reniform spot, which is indistinct; orbicular spot bright white; some whitish costal and marginal dots. Hind wings cinereous, with brownish borders. Length of the body 4 lines; of the wings 10 lines.

a. Venezuela. From Mr. Dyson's collection.

17. CELÆNA TEPENS.

Rufescens ; abdomen rufo-cinereum ; alæ anticæ lineis transversis undulatis indistinctis nigricantibus, guttis costalibus et marginalibus lineaque transversa exteriore albidis, macula orbiculari obsoleta, reniformi maculam testaceam fingente ; posticæ cinereæ, ciliis albidis.

Reddish. Abdomen reddish cinereous. Fore wings with indistinct blackish transverse undulating lines, with an exterior whitish transverse line, and with whitish costal and marginal dots; orbicular spot obsolete; a white or testaceous spot occupying the place of the reniform spot. Hind wings cinereous, with whitish ciliæ. Length of the body 5 lines; of the wings 12 lines.

a, b. Venezuela. From Mr. Dyson's collection.

18. CELÆNA? FERVENS.

Ferrugineo-rufa ; abdomen cinereum ; alæ anticæ lituris costalibus, guttis exterioribus lineaque submarginali transversa nigris, maculis reniformi et orbiculari indistinctis ; posticæ cinereæ, marginibus obscurioribus.

Ferruginous-red. Abdomen cinereous. Fore wings with some black marks along the costa, with some exterior black dots, and with a black transverse submarginal line; reniform spot and orbicular spot indistinct. Hind wings cinereous, with darker borders. Length of the body $3\frac{1}{2}$ lines; of the wings 10 lines.

a. Venezuela. From Mr. Dyson's collection.

19. CELÆNA? CARBUNCULUS.

Nigra; abdomen nigricans, lateribus cinereis; alæ anticæ lineis undulatis transversis et macularum discalium marginibus rufescentibus, gutta apud maculam reniformem guttisque marginalibus albis; posticæ pallide cinereæ, macula discali margineque latissimo nigricantibus.

Noctua carbunculus, Moriz, MSS. Herr.-Schæff. Lep. Exot. Sp. Nov. f. 214.

Venezuela.

Africa.

20. CELÆNA RENISIGNA.

Mas. Cinereo-fusca; abdomen cinereum; alæ anticæ lineis nonnullis incompletis undulatis transversis nigricantibus, guttis costalibus, macula apicali lineaque transversa interrupta submarginali testaceis, lunulis marginalibus nigris, maculis orbiculari et reniformi distinctis testaceo nigroque marginatis, hujus margine postico albido; posticæ fuscae, ciliis albidis.

Male. Cinereous-brown. Abdomen more cinereous. Fore wings with some incomplete transverse undulating blackish lines, with some testaceous dots along the costa, with a testaceous apical spot, and with an interrupted testaceous submarginal transverse line; a row of black marginal lunules; orbicular and reniform spots distinct, with testaceous borders, which are partly surrounded with black; reniform spot with a white border hindward. Hind wings brown; ciliæ whitish. Length of the body $4\frac{1}{2}$ —5 lines; of the wings 11—12 lines.

a—d. South Africa. Presented by Dr. A. Smith.

21. CELÆNA? INDIGNA.

Pallide cervina; thorax fasciis duabus anticis fuscis; abdomen cinereum; alæ anticæ lineis undulatis transversis, macula discali, fascia abbreviata interiore, striga costali subapicali macula apud angulum interiorem guttisque exterioribus fuscis; posticæ cinereæ, macula discali fasciaque tenui obscurioribus.

Apamea indigna, Herr.-Schæff. Lep. Exot. Sp. Nov. f. 130.

Cape.

Australia.

22. CELÆNA FLORESCENS.

Fœm. *Cervina*; *thorax fasciis albidis*; *abdomen albidum*; *alæ anticæ subcinereæ, lineis albidis, vitta strigisque exterioribus cervinis, lineis transversis angulosis fuscis, fascia marginali albida, macula orbiculari cervina fusco marginata, reniformi fusca extus albo marginata*; *posticæ albidæ*.

Female. Fawn-colour. Thorax with whitish bands. Abdomen whitish. Fore wings grayish, with whitish lines, with a fawn-coloured stripe, with exterior fawn-coloured streaks, with some zigzag transverse brown lines, and with a whitish band on the exterior border; orbicular spot fawn-colour, with a brown border; reniform spot brown-bordered, with white on the outer side, and partly bordered with fawn-colour on the inner side. Hind wings whitish. Length of the body 5 lines; of the wings 12 lines.

New South Wales. In Mr. Saunders' collection.

23. CELÆNA? IMPARATA.

Rufo-fusca; *abdomen cinereum*; *alæ anticæ fusco subvariæ, strigis basali, discali et exterioribus nigris, macula orbiculari, guttam testaceam fingente, reniformi incompleta testacea fusco interlineata*; *posticæ fuscescentes, basi pallidiores*.

Male. Reddish-brown. Abdomen cinereous. Fore wings indistinctly mottled with brown, with a black basal streak, with another traversing the reniform spot, and with some shorter exterior black streaks; orbicular spot almost obsolete, represented by a testaceous dot; reniform spot incomplete, testaceous, interlined with brown. Hind wings brownish, paler towards the base. Length of the body 5 lines; of the wings 12 lines.

Tasmania. In Mr. Saunders' collection.

Country unknown.

24. CELÆNA? PLAGIATA.

Fœm. *Cervina*; *thorax fascia antica nigra*; *abdomen cinereum*; *alæ anticæ murinæ, basi maculaque magna costali pallide cervinis, margine exteriore obscure cervino, macula orbiculari obsoleta, reniformi cervina fusco marginata, venis fuscis*; *posticæ cinereæ*.

Female. Somewhat resembling the *Xylinidæ*. Fawn-colour. Thorax with a black band in front. Abdomen cinereous. Fore wings mouse-colour, pale fawn-colour at the base, and with a large pale fawn-coloured costal spot, darker fawn-colour along the exterior border; orbicular spot obsolete; reniform spot fawn-colour, bordered with brown; veins brown. Hind wings cinereous. Length of the body 5 lines; of the wings 12 lines.

In Mr. Saunders' collection.

25. CELÆNA EXPUNCTA.

Pallide cervina; thorax fascia antica fusca; alæ anticæ cinereo variæ, lineis transversis undulatis fuscis, macula apicali testacea, orbiculari et reniformi testaceo marginatis, maculis duabus contiguïs obscure fuscis, striga arcuata antica alba; posticæ albidæ, marginibus fuscescentibus.

Pale fawn-colour. Thorax with a brown band in front. Abdomen cinereous. Fore wings partly shaded with gray, with transverse undulating brown lines, and with a testaceous apical spot; orbicular and reniform spots with testaceous borders, each accompanied by a dark brown spot; orbicular spot oblong, and having a spot behind it of the same size and shape and colour; a curved white streak between the reniform spot and the costa. Hind wings whitish, with brownish borders. Length of the body 4 lines; of the wings 10 lines.

In Mr. Saunders' collection.

Genus 12. AMPHIA.

Cirrus frontalis brevis, arctatus. Proboscis valida, mediocriter longa. Palpi breves, validi, pilosi, oblique ascendentes; articulus 3us truncatus, brevissimus. Antennæ sat validæ, subpubescentes. Thorax rotundatus lanuginosus, subhirsutus. Abdomen leve, carinatum, parce pilosum. Pedes longi, parce pilosi. Alæ anticæ subdenticulatæ, lineis maculisque distinctis.

Amphia, Guén. Noct. i. 224.

Frontal tuft short, contracted. Proboscis stout, moderately long. Palpi short, stout, pilose, obliquely ascending; third joint truncate, very short. Antennæ rather stout, slightly pubescent. Thorax round, lanuginose, somewhat hirsute. Abdomen smooth, keeled, slightly pilose. Legs long, slightly pilose. Fore wings slightly denticulated, with distinct lines and spots.

1. AMPHIA SUBUNITA.

Thorax antice fulvescens ; alæ anticæ viridi-cinereæ, apud medium nigricantes, maculis reniformi et orbiculari cinereis nigro marginatis antice apertis, hac rotunda, illa oblonga angulata, claviformi nigro marginata ; posticæ cinereæ.

Amphia subunita, Guén. Noct. i. 224, 356.

Cape.

2. AMPHIA HEPIALOIDES.

Caput et thorax anticus fulva ; alæ anticæ nigricantes, basi, striga, fasciis duabus maculisque reniformi et orbiculari rufo-fulvis nigro conspersis, orbiculari nigra, pupilla cinerea ; reniformi oblonga angulata, claviformi nigra ; posticæ nigricantes, marginibus fulvo nebulosis.

Amphia hepialoides, Guén. Noct. i. 224, 357.

Abyssinia.

Genus 13. PERIGEA.

Corpus vix robustum. Proboscis mediocriter longa. Palpi longiusculi, subascendentes ; articulus 3us longi-conicus, 2i triente non brevior. Antennæ simplices, graciles, corporis dimidio paullo breviores. Abdomen alas posticas triente superans. Pedes graciles ; tibiæ posticæ calcaribus quatuor longissimis. Alæ mediocriter latæ ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subconvexo vix obliquo.

Perigea, Guén. Noct. i. 225.

Body hardly stout. Proboscis moderately long. Palpi slightly ascending, rather long ; third joint elongate-conical, full one-third of the length of the second. Antennæ simple, slender, a little more than half the length of the body. Abdomen extending for one-third of its length beyond the hind wings. Legs slender ; hind tibiæ with four very long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, slightly convex and hardly oblique along the exterior border ; first, second and third inferior veins approximate to each other ; fourth moderately remote.

Europe.

1. PERIGEA IMPLEXA.

Cervina; *alæ anticæ fascia lata obscuriore albido marginata, maculas reniformem et orbicularem albido marginatas includente, linea submarginali albida*; *posticæ pallidiores, margine lato obscuriore.*

Noctua implexa, Hübn. Samml. Eur. Schmett. iii. Noct. f. 414. Treit. Schmett. Eur. Suppl. x. 73. Dup. Hist. Nat. Lép. Fr. Suppl. iv. 98, pl. 58, f. 7. Boisd. Ind. Méth. 101, 754.

Perigea implexa, Guén. Ann. Soc. Ent. Fr. vi. 237; Noct. i. 229, 369.

Noctua viscosa, Frey. Neu. Beit. Schmett. i. pl. 21, f. 3.

Sicily.

2. PERIGEA SAREPTÆ.

Alæ anticæ nigro-fuscæ, latæ, dentatæ, nitentes, apud spatium medianum ferrugineo tinctæ; *posticæ fusco-cinereæ, vix rufo-tinctæ, lunulis marginalibus nigricantibus.*

Perigea Sareptæ, Boisd. MSS Guén. Noct. i. 230, 370.

Sarepta.

North America.

3. PERIGEA XANTHIOIDES.

Lutea, rufo varia; abdomen canescens; alæ anticæ guttis plagiis ciliisque cinereis; posticæ canescentes aut cinereæ, apud margines rufescentes linea fusca.

Perigea xanthioides, Guén. Noct. i. 227, 361.

a, b. Florida. Presented by E. Doubleday, Esq.

4. PERIGEA INFELIX.

Fusca; abdomen pallide cinereum; alæ anticæ lineis plurimis transversis angulosis subobsoletis nigricantibus, guttis marginalibus nigris, plaga marginali cervina, maculis orbiculari et reniformi indistinctis; posticæ cinereo-fuscæ, ciliis albidis.

Perigea infelix, Guén. Noct. i. 229, 368.

a. Florida. Presented by E. Doubleday, Esq.

5. PERIGEA VECORS.

Cervina ; thorax fusco varius ; abdomen cinereum ; alæ anticæ fusco variæ, lineolis transversis undulosis strigisque exterioribus nigricantibus, gutta apud maculam reniformem punctisque exterioribus albis ; posticæ fusco-cinereæ, ciliis pallidioribus.

Perigea vecors, Guén. Noct. i. 230, 371.

a. Trenton Falls, New York. Presented by E. Doubleday, Esq.

Mexico:

6. PERIGEA ABSTEMIA.

Castaneo-fusca ; palpi subarcuati, bicolores, articulo 3o sat piloso ; alæ anticæ denticulatæ, macula discali nigro-fusca, reniformem et orbicularem includente ; posticæ denticulatæ, ciliis latis, cinereis, ex parte castaneo-fuscis.

Perigea abstemia, Guén. Noct. i. 231, 372.

Mexico.

West Indies.

7. PERIGEA SUBAUREA.

Ferruginosa ; thorax nigro conspersus ; abdomen canescens ; alæ anticæ fasciis tribus macularibus luteis, litura apud maculam reniformem, guttis costalibus punctisque marginalibus albis ; posticæ canescentes, fusco marginatæ.

Perigea subaurea, Guén. Noct. i. 227, 362.

Perigea Hylea, var. ?

Antilles, Brazil.

8. PERIGEA CIRCUITA.

Palpi robusti, arcuati, articulo 3o brevi lato ; alæ anticæ fuscæ, lignicolores, rufo variæ, lineis solitis vix determinatis, venis exterioribus albo aut flavescente punctatis, macula reniformi e gutta punctisque tribus albis strigisque flavescente, punctis marginalibus flavescantibus ; posticæ ochraceo-albidæ, margine lato nigricante.

Perigea circuita, Guén. Noct. i. 227, 363.

Isle St. Thomas.

9. PERIGEA APAMEOIDES.

Fusca ; alæ anticæ litura discali lineisque transversis indistinctis undulatis pallidioribus et obscurioribus ; posticæ cinerascens, apud margines fuscescentes.

Perigea apameoides, Guén. Noct. i. 229, 367.

Isle St. Thomas.

South America.

A. Alæ anticæ stramineæ. - - - xylophasioides, Guén.

B. Alæ anticæ obscuriores.

A. Alæ anticæ albo guttatæ. - - - stelligera, Guén.

B. Alæ anticæ punctis albis. - - - sutor, Guén.

C. Alæ anticæ macula reniformi albo-punctata. albigeræ, Guén.

D. Alæ anticæ albo non variæ.

A. Tibiæ posticæ non latæ.

a. Alæ anticæ ferrugineæ, croceo fasciatæ. - Hylea, Cram.

i. Alæ posticæ testaceo-cinereæ. - furtiva, Guén.

ii. Alæ posticæ albidæ, margine fuscescente. turpis, Guén.

c. Alæ anticæ nigro-fuscæ. - - - selenosa, Guén.

B. Tibiæ posticæ latæ. - - - Caternaultii, Guén.

10. PERIGEA? HYLEA.

Crocea ; alæ anticæ ferrugineæ, basi strigis anticis posticisque fasciaque exteriori croceis, gutta discali alba ; posticæ pallide ferrugineæ.

Phalæna-Noctua Hylea, Cram. Pap. Exot. iv. 48, pl. 312, f. E.

Surinam.

11. PERIGEA XYLOPHASIOIDES.

Flavo-straminea ; alæ anticæ denticulatæ, sat latæ, rufescente ex parte tinctæ, macula orbiculari obsoleta, reniformi subobsoleta ; posticæ stramineo-albæ, subhyalinæ, punctis marginalibus apiceque nigricantibus.

Perigea xylophasioides, Guén. Noct. i. 226, 360.

Brazil.

12. PERIGEA ALBIGERA.

Nigricans; alæ anticæ latiusculæ, subintegræ, lineis maculisque solitis testaceis, reniformi e punctis duobus albis, punctis marginalibus ciliisque testaceis, hac incisuris nigricantibus; posticæ nigricantes, ciliis flavo-albis.

Perigea albigeræ, Guén. Noct. i. 228, 364.

Guadeloupe, Brazil.

13. PERIGEA STELLIGERA.

Fœm. Violaceo-fusca; alæ anticæ albo guttatæ, maculis orbiculari et reniformi flavescentibus, pyriformibus, ciliis flavescentibus, fusco interlineatis; posticæ nigricantes, ciliis flavo-albis.

Perigea stelligeræ, Guén. Noct. i. 228, 365.

Brazil.

14. PERIGEA SELENOSA.

Fœm. Nigro-fusca; alæ antica violaceo-fusco marmoratæ, reniformi maxima maculam albam includente; posticæ nigricantes, ciliis flavo-albis.

Perigea selenosæ, Guén. Noct. i. 228, 366.

Brazil.

15. PERIGEA FURTIVA.

Fusco-cinereo testacea; alæ anticæ subdenticulatæ, lituris indistinctis, nebula fusciscente inter reniformem et orbicularem; posticæ testaceo-cinereæ, ciliis pallidioribus.

Perigea furtivæ, Guén. Noct. i. 231, 373.

Brazil?

16. PERIGEA SUTOR.

Fusco-cinereo testacea; alæ anticæ subintegræ, lituris indistinctis, punctis albis lunulisque nigris marginalibus; posticæ maris flavescentes, cinereo late marginatæ, ciliis flavo-albis.

Perigea sutor, Guén. Noct. i. 231, 374.

Brazil.

17. PERIGEA TURPIS.

Rufescente-cervina ; thorax lineis transversis fuscis ; abdomen cinereum ; alæ anticæ lineis transversis undulatis subobsoletis fuscescentibus ; posticæ albidæ, margine fuscescente.

Perigea turpis, Guén. Noct. i. 232, 375.

Colombia.

18. PERIGEA? CATERNAULTII.

Mas. Fusca ; lignicolor ; tibiæ posticæ latæ, calcaribus abbreviatis, anticorum una incrassata ; alæ anticæ parte media margineque exteriori obscurioribus, macula reniformi apud medium ferruginea ; posticæ albæ, margine postico obscuro.

Perigea Caternaultii, Guén. Noct. i. 233, 378.

Cayenne.

Asia.

19. PERIGEA SPICEA.

Testacea ; abdomen albidum ; alæ anticæ ex parte fusco nebulosæ, punctis, macula discali plagaque apud angulum interiorem nigricantibus ; posticæ albidæ.

Perigea spicea, Guén. Noct. i. 226, 358.

Java.

20. PERIGEA TRICYCLA.

Mas. Alæ anticæ ochraceo-flavæ, auratæ, nebulis punctisque obscure rufis, fascia latissima marginali rufo-fusca, margine interiore cinereo apud angulum interiorem nigricante, reniformi et orbiculari rotundis, annulis duplicatis marginalibus ; posticæ nigro-cinereæ.

Perigea tricycla, Guén. Noct. i. 226, 359.

Silhet.

Australia.

21. PERIGEA TONSA.

Flavo-cinerea ; abdomen depressum, segmento 2o subcristato ; alæ anticæ nigricante conspersæ, maculis lineisque pallidioribus subincarnatis, maculis reniformi et orbiculari parvis subæqualibus cinereo pupillatis ; posticæ albidæ, margine cinerascete.

Perigea tonsa, *Guen. Noct. i.* 232, 376.

Australia.

22. PERIGEALBINASUS.

Fœm. *Rufo-fusca, cinereo varia; caput antice album; palpi albi; thorax lineis transversis albidis; abdomen pallide cinereum; pedes albido fasciati; alæ anticæ lineis transversis cinereis, una exterior duabusque submarginalibus, maculis reniformi et orbiculari obscurioribus ex parte cinereo marginatis; posticæ fuscæ, basi cinereæ, ciliis albidis.*

Female. Reddish-brown, mingled with cinereous. Head white in front. Palpi mostly white. Thorax with whitish transverse lines. Abdomen pale cinereous. Legs with whitish bands. Fore wings with one exterior and two submarginal cinereous transverse lines; reniform and orbicular spots rather darker than the wing elsewhere; their borders partly cinereous. Hind wings brownish, cinereous towards the base; ciliæ whitish. Length of the body 7 lines; of the wings 16 lines.

a. Sydney. Presented by E. Doubleday, Esq.

Country unknown.

23. PERIGEALDECENS.

Rufescens; abdomen cinereum, subcristatum; alæ anticæ albo punctatæ, costâ margineque exteriori albo guttatis, macula orbiculari subobsoleta, reniformi albo notata, testaceo marginata, linea transversa exteriori angulosa incompleta testacea; posticæ pallide cinereæ, marginibus fusciscentibus, ciliis albidis.

Reddish. Abdomen cinereous, slightly crested. Fore wings with a white point; costâ and exterior border with white dots; orbicular spot almost obsolete; a white mark on the reniform spot, which has a testaceous border; an incomplete exterior zigzag transverse testaceous line. Hind wings pale cinereous, with brownish borders; ciliæ whitish. Length of the body 5—6 lines; of the wings 12—14 lines.

a—c. ———? From Mr. Children's collection.

Addenda.

24. PERIGEA MOBILIS.

Mas. *Flavescens; thorax fasciis fuscescentibus; abdomen testaceum; alæ anticæ ferrugineo ex parte nebulosæ, lineis transversis fuscis duplicatis undulatis, orbiculari et reniformi fusco marginatis, hac albido notata, illa obliqua subelliptica; posticæ pallide cinereæ, marginibus obscurioribus, ciliis albidis.*

Male. Yellowish. Thorax with brownish bands. Abdomen testaceous, shining. Fore wings partly shaded with ferruginous; the usual transverse lines double, brown, and undulating; orbicular and reniform spots bordered with brown, the former oblique, nearly elliptical, not half the size of the latter, which is large, and has some white marks on its hinder part. Hind wings pale cinereous, with dark cinereous borders, and whitish ciliæ. Length of the body 5 lines; of the wings 12 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.

25. PERIGEA NIGRIPALPIS.

Mas. *Rufescens; palpi nigri; abdomen cinereum; alæ anticæ lineis transversis nigricantibus undulatis indistinctis, exteriore albido marginata, costa testaceo notata, guttis marginalibus testaceis, orbiculari obsoleta, reniformi rufa vix excavata testaceo marginata; posticæ cinereæ, ciliis pallidis.*

Male. Reddish. Palpi black; third joint about half the length of the second. Abdomen cinereous. Fore wings with the transverse lines blackish, undulating and indistinct, the exterior one with a whitish border; costa with testaceous marks; exterior border with testaceous dots; claviform and orbicular spots obsolete; reniform spot red, distinct, not large, hardly excavated, with a testaceous border. Hind wings cinereous, with paler ciliæ. Length of the body 5 lines; of the wings 12 lines.

a. Venezuela. From Mr. Dyson's collection.

26. PERIGEA ANTICA.

Mas. *Rufescens*; *thorax antice nigricans*; *abdomen obscure cinereum*; *alæ anticæ ferrugineæ, lineis transversis fuscis undulatis indistinctis, costa lituris pallidioribus et nigricantibus, lunulis marginalibus nigris, orbiculari obsoleta*; *reniformi nigricante pallido marginata*; *posticæ cinereæ*.

Male. Reddish. Thorax blackish in front. Abdomen dark cinereous. Fore wings ferruginous; transverse lines brown, undulating, indistinct; costa with paler and blackish marks; exterior border with black lunules; claviform and orbicular spots obsolete; reniform distinct, blackish, with a pale border. Hind wings cinereous. Wings beneath dark cinereous. Length of the body 5 lines; of the wings 12 lines.

a. Venezuela. From Mr. Dyson's collection.

Fam. 4. CARADRINIDÆ.

Statura mediocris aut parva. Corpus robustum aut gracile. Proboscis non longa. Palpi breviusculi, sæpissime porrecti; articulus 3us parvus. Antennæ simplices, *maris* nonnunquam serratæ. Abdomen alas posticas non aut perpaullo superans. Pedes validi, aut graciles; tibiæ posticæ calcaribus 4 longis. Alæ breviusculæ, latiusculæ, nonnunquam angustæ; anticæ margine exteriore sub-obliquo.

Caradrinidæ, *Guén. Noct. i.* 234. *Boisd. Ind. Méth.* 136.

Leucanidæ, p., *Guén. Ann. Soc. Ent. Fr.*

Caradrinidi, p., *Steph. Cat. Brit. Lep.* 116.

Size moderate or small. Body robust or slender. Proboscis of moderate length, or very short. Palpi rather short, most often porrect; second joint small. Antennæ simple, serrated in the males of some species. Abdomen hardly extending beyond the hind wings. Legs moderately stout, sometimes slender; hind tibiæ with four long spurs. Wings rather short and broad, rarely narrow or elongate. Fore wings with the exterior border slightly oblique.

- A. Antennæ filiformes, *maris* serratæ. - 1. MERISTIS, *Hüb.*
 B. Antennæ simplices.
 A. Alæ anticæ longiusculæ.
 a. Palpi porrecti aut incumbentes. - 2. HYDRILLA, *Boisd.*
 B. Palpi ad frontem applicati. - 3. MONODES, *Guén.*
 B. Alæ anticæ breviusculæ, latiusculæ.
 A. Proboscis brevissima. - 4. ACOSMETIA, *Steph.*
 B. Proboscis mediocriter longa.
 a. Pedes antici non elongati. - 5. CARADRINA, *Ochs.*
 b. Pedes antici longi, graciles. - 6. AMYNA, *Guén.*

Genus 1. MERISTIS.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, pilosi, oblique ascendentes; articulus 3us conicus, brevissimus. Antennæ corporis dimidio paullo longiores. Abdomen alas posticas paullo superans. Pedes validi; femora pilosa; tibiæ posticæ calcaribus quatuor longis. Alæ latiusculæ; anticæ apud costam rectæ, apice vix angulatæ, margine exteriori subobliquo. *Mas.*—Antennæ validæ, serratæ. *Fæm.*—Antennæ graciles, simplices.

Meristis, *Hüb.* *Verz. Schmett.* 239.

Grammesia, *Steph. Ill. Brit. Ent. Haust.* ii. 151. *Guén. Noct.* i. 235.

Caradrina, p., *Treit.*; *Boisd.*; *Guén. Ann. Soc. Ent. Fr.*; *Curt.*

Body stout. Proboscis moderately long, Palpi stout, pilose, obliquely ascending; third joint conical, less than one-fourth of the length of the second. Antennæ a little more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; femora pilose; hind tibiæ with four long spurs. Wings rather broad. Fore wings straight in front, hardly angular at the tips, slightly oblique along the exterior border; first, second and third inferior veins approximate; fourth moderately remote. *Male.*—Antennæ stout, strongly serrated. *Female.*—Antennæ slender, simple.

1. MERISTIS TRILINEA.

Testaceo aut albido-testacea; alæ anticæ conspersæ, lineis tribus transversis fuscis, margine exteriori obscuriore; posticæ cinereæ, ciliis testaceis. *Mas.*—Antennæ luteæ.

Phalæna (Noctua) *Quercicola*, *Gmel. ed. Syst. Nat.* i. 5, 2535, 1001.

- , *Engr. Pap. d'Eur.* 344, a—c.
- Noctua trilinea*, *Wien. Verz.* 84, 5. *Bork. Eur. Schm.* iv. 700, 307. *Hüb. Samml. Eur. Schm.* *Noct.* pl. 43, f. 216. *Haw. Lep. Brit.* 249. *Dup. Hist. Nat. Lep. Fr.* vii. 103, pl. 107, f. 2.
- Noctua Quercus*, *Fabr. Sp. Ins.* ii. 214, 24; *Mant. Ins.* ii. 138, 314; *Ent. Syst.* iii. 2, 22, 44. *Sulz. Ins.* 74, pl. 36.
- Noctua trigrammica*, *Esp. Schm.* iv. pl. 123, f. 6.
- Caradrina trilinea*, *Treit. Schm.* *Eur.* v. 2, 272, 14. *Boisd. Ind. Méth.* 137, 1093.
- Noctua (Caradrina) trilinea*, *Meig. Handb.* 168, 52; *Syst. Besch.* iii. 123, 73, pl. 101, f. 11.
- Noctua bilinea*, *Hüb. Eur. Schm.* *Noct.* pl. 45, f. 217.
- Grammesia trilinea*, *Steph. Ill. Brit. Ent. Haust.* ii. 152. *Westw. & H. Brit. Moths*, i. 146, pl. 26, f. 17. *Herr.-Schæff. Eur. Schm.* ii. 194, 37.
- Grammesia bilinea*, *Steph. Ill. Brit. Ent. Haust.* ii. 152. *Herr.-Schæff. Eur. Schm.* ii. 194, 38; ii. *Noct.* pl. 77, f. 398.
- Meristis trilinea*, *Hüb. Verz. Schm.* 239, 2376. *Steph. Cat. Brit. Lep.* 117.
- Meristis bilinea*, *Hüb. Verz. Schm.* 240, 2377. *Steph. Cat. Brit. Lep.* 117.
- Caradrina bilinea*, *Boisd. Ind. Méth.* 137, 1094. *Curt. Brit. Ent.* xiv. pl. 651.
- Noctua notacula?* *Fabr. Mant. Ins.* ii. 138, 35.
- Phalæna (Noctua) notacula?* *Gmel. ed. Syst. Nat.* i. 5, 2535, 1002.
- a, b. England. Presented by E. Doubleday, Esq.
- c, d. England. Presented by J. C. Dale, Esq.
- e—gg. England. From Mr. Stephens' collection.
- hh, ii. England. From Mr. Stevens' collection.
- jj—mm. England.
- nn—oo. Europe. From M. Becker's collection.

Genus 2. HYDRILLA.

Corpus gracillimum. Caput parvum. Proboscis mediocriter longa. Palpi graciles, porrecti aut incumbentes, caput superantes; articulus 3us conicus, brevissimus. Antennæ graciles, corporis dimidio longiores. Abdomen alas posticas paullo superans. Pedes graciles, longiusculi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice subangulatæ, margine exteriore vix obliquæ.

Hydrilla, *Boisd. Ind. Méth.* 138; *Dup.*; *Guén. Noct.* i. 236.
Caradrina, p., *Ochs.*; *Treit.*

Body very slender. Head small. Proboscis moderately long. Palpi slender, porrect or incumbent, extending beyond the head; third joint conical, not more than one-sixth of the length of the second. Antennæ slender, more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs slender, rather long; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, slightly angular at the tips, hardly oblique along the exterior border.

1. HYDRILLA PALUSTRIS.

Cinereu; *alæ anticæ stigmatibus ambobus punctiformibus nigris, strigis ambabus denticulatis, linea undulata obsoleta basim versus nigro-cincta.*

Noctua palustris, *Hübner. Samml. Eur. Schm.* *Noct.* f. 367.

Athetis palustris, *Hübner. Verz. Schm.* 209, 2089.

Caradrina palustris, *Treit. Schm.* *Eur.* ii. 255. *Dup. Hist. Nat.*

Lép. Fr. Suppl. iii. 578, pl. 48.

Hydrilla palustris, *Boisd. Ind. Méth.* 138, 1116. *Guén. Ann. Soc.*

Ent. Fr. vi. 236; *Noct.* i. 237, 380. *Herr.-Schæff. Eur.*

Schm. ii. 214, 103; ii. *Noct.* pl. 58, f. 292. *Eversm. Faun.*

Volg. 261.

Hydrilla exilis, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1842.

Valais, Switzerland. Austria. South Russia.

2. HYDRILLA ADOLETA.

H. palustri affinis; *palpi minus hirti, articulo 3o magis distincto*; *alæ anticæ ochraceo-cinereæ, nigro conspersæ, lineis duabus medianis vagis, venis apice margineque exteriore obscurioribus*; *posticæ sordide albidæ, strigis marginalibus cinereis.*

Hydrilla adoleta, *Guén. Noct.* i. 238, 381.

South-Russia.

3. HYDRILLA OBLITERATA.

Alæ subnitidæ dilute subcinereæ, anticæ fusco irroratæ, striga pone medium punctulata punctisque in costa minutis albidis, litura quadrata obscure fusca inter maculas ordinarias.

Noctua obliterata, *Dalm. MSS.*

Hadena? obliterata, *Zett. Ins. Lapp.* 941, 20.

Hydrilla obliterata, *Boisd. Ind. Méth.* 138, 1117. *Guén. Ann. Soc. Ent. Fr.* vi. 236; *Noct.* i. 238, 382.

Lapland.

Asia.

4. HYDRILLA? DISTRACTA.

Alæ dilatatae, nigricante fuscae, ad marginem externum obscuriores, strigis ordinariis per puncta nigra et adjacentia alba signatis, maculis ordinariis magnis integris nigro impletis, linea interrupta alba terminatis; posticæ nigricantes, lunula media nigra.

Caradrina distracta, *Eversm. Bull. Soc. Imp. Nat. Mosc.* xxi. 3. 217, 9,

Hydrilla? distracta, *Guén. Noct.* i. 239, 383.

Kiachta, E. Siberia.

5. HYDRILLA? DISTENSA.

Mas. *Alæ anticæ cinereo-fuscae, nebulosæ, strigis duabus dentatis nigris, maculis ordinariis nigro-cinctis; alæ posticæ subcinereo-albidæ, pulveratæ, striga externa dentata nigra umbræque extrema nigricante.*

Caradrina distensa, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1851, xxiv. No. 2, 633, 20.

Irkoutzk.

Genus 3. ACOSMETIA.

Corpus gracillimum. Proboscis brevissima. Palpi graciles, porrecti, caput superantes; articulus 3us 2i triente æqualis. Antennæ gracillimæ, corporis dimidio longiores. Abdomen alas posticas non superans. Pedes graciles, longiusculi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore mediocriter obliquo.

Acosmetia, *Steph. Ill. Brit. Ent. Haust.* iii. 121; *Guén. Noct.* i. 239.

Athetis, p., *Hübner. Verz. Schmett.* 209.

Anthophila, p., *Treit.*

Hydrilla, p., *Boisd.*; *Dup.*

Caradrina, p., *Ochs.*

Body very slender. Proboscis very short. Palpi slender, porrect, extending beyond the head; third joint about one-third of the length of the second. Antennæ very slender, rather more than half the length of the body. Abdomen not extending beyond the hind wings. Legs slender, rather long; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, somewhat rounded at the tips, moderately oblique along the exterior border; fourth inferior vein rather remote from the others, which are nearly contiguous.

1. ACOSMETIA CALIGINOSA.

Rufescente-cinerea; caput thoracisque fascia nigra; abdomen albidum; alæ anticæ lineis duobus transversis angulosis ocellisque duobus intermediis discalibus elongatis albido-nigris; posticæ sordide albidæ, margine cinerascente.

Noctua caliginosa, *Hübner. Samml. Eur. Schmett. Noct.* pl. 100, f. 474.

Athetis caliginosa, *Hübner. Verz. Schmett.* 209, 2090.

Anthophila caliginosa, *Treit. Schmett. Eur.* iii. 286; *Suppl.* x. 148.

Caradrina caliginosa, *Eversm. Faun. Volg-Ural.* 339.

Hydrilla caliginosa, *Boisd. Ind. Méth.* 138, 114. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 341, pl. 31.

Acosmetia caliginosa, *Steph. Ill. Brit. Ent. Haust.* ii. 122. *Guen. Ann. Soc. Ent. Fr.* vi. 236; *Noct.* i. 240, 384.

a, b. England. From Mr. Stephens' collection.

c, d. England.

e. Europe. From M. Becker's collection.

2. ACOSMETIA AQUATILIS.

Mas. Albo-cinerea, subochracea; posticæ albæ, cinereo ex parte conspersæ.

Acosmetia aquatilis, *Boisd. MSS. Guén. Noct.* i. 243, 385.

Acosmetia caliginosa, var.

Ural District.

Genus 4. MONODES.

Corpus mediocriter robustum. Proboscis breviuscula. Palpi graciles, ascendentes; articulus 3us lanceolatus, 2i triente æqualis. antennæ graciles, simplices, corporis dimidio multo longiores. Abdomen alas posticas vix superans. Pedes sat graciles; tibiæ posticæ calcaribus quatuor longis. Alæ anticæ sat angustæ, apud costam vix convexæ, apice rotundatæ, margine exteriori vix obliquo. Monodes, *Guén. Noct. i.* 240.

Body moderately stout. Proboscis rather short. Palpi slender, ascending to the vertex; third joint lanceolate, about one-third of the length of the second. Antennæ slender, simple, much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs rather slender; hind tibiæ with four long spurs. Fore wings rather narrow, hardly convex in front, rounded at the tips, moderately oblique along the exterior border; first, second and third inferior veins approximate; fourth remote.

1. MONODES NUCICOLORA.

Cervina; abdomen cinerascens; alæ anticæ litura discali pallidior, macula discali nigra, plaga diffusa nigro-cinerea marginali; posticæ albæ.

Monodes nucicolora, *Guén. Noct. i.* 241, 386.

a. E. Florida. Presented by E. Doubleday, Esq.

Genus 5. CARADRINA.

Corpus robustum aut gracile. Proboscis mediocriter longa. Palpi validi, pilosi, porrecti, caput paullo superantes; articulus 3us brevissimus. Antennæ simplices, sat validæ, corporis dimidio perpaullo longiores. Abdomen alas posticas perpaullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice angulatæ aut subrotundatæ, margine exteriori subconvexo vix obliquo.

Caradrina, p., *Ochs. Syst. Gloss. Schm. von Eur. iv.*; *Treits.*; *Boisd.*; *Dup.*

Caradrina, *Steph.*; *Guén. Noct. i.* 241.

Caradrina, Elaphria, Athetis, p., et Telmia, *Hübner. Verz. Schmett.*

Body stout or slender. Proboscis moderately long. Palpi stout, pilose, porrect, extending a little beyond the head; third

joint not more than one-fourth of the length of the second. Antennæ simple, rather stout, very little more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, rectangular or somewhat rounded at the tips, slightly convex and very slightly oblique along the exterior border; inferior veins much as usual.

Group 1.

Acosmetiæ affinis. Corpus gracile. Alæ latæ, nitentes.

Allied to *Acosmetia*. Body slender. Wings broad, shining.

1. CARADRINA ULIGINOSA.

Cinerea; alæ anticæ stigmatē reniformi parvo, orbiculari punctiformi nigerrimo, strigis ambabus, umbra media, lineâ undulata subrecta testacea utrinque fusco terminata.

Caradrina uliginosa, Guén. Noct. i. 243, 387.

Hydrilla uliginosa, Boisd. Ind. Méth. 138, 1115. Herr.-Schæff. Eur. Schmett. ii. 213, 102; ii. Noct. pl. 58, f. 293, 294.

South Switzerland.

2. CARADRINA LENTA.

Murina; alæ anticæ lineis transversis angulosis fasciisque duabus diffusis guttisque costalibus nigricantibus, lineâ transversa submarginali pallide murina; posticæ pallide murinæ, macula discali margineque obscurioribus.

Caradrina lenta, Treit. Schmett. Eur. ii. 257. Guén. Ann. Soc. Ent. Fr. vi. 236; Noct. i. 243, 388. Boisd. Ind. Méth. 137, 1103. Dup. Hist. Nat. Lép. Fr. Suppl. iii. 305, pl. 28. Eversm. Faun. Volg-Ural. 262. Herr.-Schæff. Eur. Schmett. ii. 211, 94.

Noctua lenta, Frey. Beit. Ges. Eur. Schm. pl. 47. Geyer, Samml. Eur. Schm. f. 825.

a—c. Europe. From M. Becker's collection.

Group 2.

Corpus robustum. Pedes validi, pilosi. Alæ anticæ lineis maculisque solitis distinctis, bene determinatis, pallidiore marginatis.

Body stout. Legs stout, pilose. Fore wings with the usual lines and spots distinct and separate, bordered with pale colour.

3. CARADRINA MORPHEUS.

Cervina ; abdomen testaceum ; alæ anticæ maculis reniformi et orbiculari fasciisque indistinctis aut conspicuis obscurioribus aut nigris ; posticæ albidæ, nitentes.

———, *Engr. Pap. d'Eur.* 406.

Phalæna-Noctua Morpheus, *Hüfn. Berl. Mag.* iii. 302.

Phalæna pulla? *Beckw. Linn. Trans.* i. 2, pl. 1, f. 7, 9.

Noctua Sepii, *Sepp, Ins.* iv. pl. 34. *Hüb. Eur. Schm.* Noct. pl. 34, f. 161. *Dup. Hist. Nat. Lep. Fr.* iii. 52, pl. 75.

Caradrina Morpheus, *Treit. Schm.* ii. pl. 249. *Steph. Ill. Brit. Ent. Haust.* ii. 157. *Westw. & H. Brit. Moths*, i. 145, pl. 29, f. 13, 14. *Herr.-Schæff. Eur. Schm.* ii. 210, 9. *Guén. Noct.* i. 244, 390.

Caradrina Sepii, *Steph. Ill. Brit. Ent. Haust.* ii. 158.

Elaphria Sepii, *Hüb. Verz. Schm.* 230.

a—p. England. From Mr. Stephens' collection.

q—v. England.

u, w. Europe. From M. Becker's collection.

4. CARADRINA ALSINES.

Testaceo-cervina ; abdomen cinereo-cervinum ; alæ anticæ fasciis undulatis indistinctis fusciscentibus, maculis reniformi et orbiculari fasciaque exteriori obscurioribus testaceo marginatis, lineis transversis guttularibus nigricantibus ; posticæ testaceo-cinereæ, nitentes.

———, *Engr. Pap. d'Eur.* 406, b.

Noctua Alsines, *Bork. Eur. Schm.* 264. *Hüb. Samml. Eur. Schm.* 577.

Caradrina Alsines, *Hübner. Verz. Schmett.* 230, 2311. *Trait. Schmett. Eur.* ii. 266? *Dup. Hist. Nat. Léop. Fr.* iii. 63, pl. 76? *Eversm. Faun. Volg-Ural.* 258? *Herr.-Schæff. Eur. Schmett.* ii. 211, 95; ii. *Noct.* pl. 74, f. 379. *Boisd. Ind. Méth.* 137, 1100? *Guén. Ann. Soc. Ent. Fr.* vi. 236; *Noct.* i. 244, 392.

See Bentley, *Entomologist*, 316, for descriptions of the varieties.

a—r. England. From Mr. Stephens' collection.

s, t. Europe. From M. Becker's collection.

5. CARADRINA BLANDA.

Canis; *abdomen sordide albidum*; *alæ anticæ annulis duobus (exteriore elongato transverso) lineisque duabus transversis exterioribus albidis, punctis exterioribus in lineas duas transversas dispositis nonnullisque costalibus nigricantibus*; *posticæ albidæ, margine sordiusculo.*

———, *Engr. Pap. d'Eur.* 406, c—e.

Phalæna (Noctua) blanda, *Gmel. ed. Syst. Nat.* i. 5, 2548, 1066.

Noctua blanda, *Wien. Verz.* 77, 8. *Fabr. Mant. Ins.* ii. 147, 96.

Hübner. Eur. Schmett. Noct. pl. 34, f. 162.

Caradrina blanda, *Hübner. Verz. Schmett.* 230, 2310. *Dup. Hist. Nat. Léop. Fr.* iii. 55, pl. 75, f. 6. *Boisd. Ind. Méth.* 137, 1098. *Guén. Ann. Soc. Ent. Fr.* vi. 236; *Noct.* i. 245, 393.

Caradrina Taraxaci, *Hübner. Verz. Schmett.* 230, 575. *Boisd. Ind. Méth.* 137, 1099. *Herr.-Schæff. Eur. Schmett.* ii. 211, 97; ii. *Noct.* pl. 74, f. 380.

Noctua Plantaginis, *Hübner. Eur. Schmett. Noct.* f. 576

Noctua Taraxaci, *Hübner. Eur. Schmett. Noct.* f. 575.

Noctua superstes, *Frey. Neu. Beit. Schmett.* 382.

See Stephens, *Cat. Brit. Lep.* p. 117, for other synonyms.

a—c. England. From Mr. Stephens' collection.

d—h. England.

i—m. Europe. From M. Becker's collection.

n—p. Europe.

6. CARADRINA AMBIGUA.

Cerrina; *abdomen pallidum*; *alæ anticæ maculis reniformi et orbiculari, lineis transversis guttularibus fasciisque obscurioribus pallido marginatis*; *posticæ testaceo-cinerascentes.*

Phalæna-Noctua ambigua, *Gmel. ed. Syst. Nat.* i. 5, 2548, 1067.

———, *Engr. Pap. d'Eur.* 403, a.

Noctua ambigua, *Wien. Verz.* 77, 10. *Fabr. Mant. Ins.* ii. 148, 97; *Ent. Syst.* iii. 2, 48, 131. *Hübner. Eur. Schmett. Noct.* pl. 125, f. 576.

Monima ambigua, *Hübner. Verz. Schmett.* 229, 2297.

Noctua (Caradrina) ambigua, *Meig. Syst. Besch.* iii. 122, 72, pl. 98, f. 8—11.

Noctua Plantaginis, *Dup. Hist. Nat. Léop. Fr.* iii. 59, pl. 76, f. 2.

Caradrina Plantaginis, *Boisd. Ind. Méth.* 137, 1097. *Herr.-Schæff. Eur. Schmett.* ii. 211, 96; ii. *Noct.* pl. 74, f. 381. *Guén. Ann. Soc. Ent. Fr.* vi. 236.

Caradrina ambigua, *Treit. Schmett. Eur.* ii. 262. *Guén. Noct.* i. 247, 395.

Bombyx pulverulenta, *Esp. Schmett. Bomb.* 76, 5, 6.

Noctua pulverulenta, *Hübner. Schmett. Eur. Noct.* f. 173.

a, b. Europe. From M. Becker's collection.

7. CARADRINA? COHÆSA.

Ochraceo-cinerea; alæ anticæ linea undulata pallidiore, annulis fundo concoloribus, acute pallidius cinctis. Mas.—Antennæ dentibus pyramidalis penicillatis; alæ posticæ albæ, cinereo marginatæ. Fœm.—Linea maculis sagittatis nigris; alæ posticæ cinereæ.

Caradrina cohæsa, *Herr.-Schæff. Eur. Schmett.* ii. 209, 89; ii. *Noct.* pl. 20, f. 95—97.

South Europe.

8. CARADRINA RESPERSA.

Pallide cinerascens; abdomen basi albidum; alæ anticæ maculis parvis costalibus lineisque transversis (interioribus undulatis exterioribus guttularibus) nigris; posticæ cinereæ, basi pallidiores.

Caradrina respersa, *Hübner. Verz. Schmett.* 230, 2308. *Ochs. Treit. Schmett. Eur.* ii. 269. *Bruaud, Ann. Soc. Ent. Fr. 2me Sér.* ii. 194, pl. 6, No. 1, D, a—d, larva. *Boisd. Ind. Méth.* 137, 1095. *Guén. Ann. Soc. Ent. Fr.* vi. 236; *Noct.* i. 248, 397. *Herr.-Schæff. Schmett.*

Noctua respersa, *Wien. Verz. T.* 7, 8. *Hübner. Eur. Schmett. Noct.* f. 164. *Dup. Hist. Nat. Léop. Fr.* iii. 78, pl. 77. *Frey. Neu. Beit. Schmett.* i. pl. 94.

Noctua margaritacea, *Bork. Eur. Schmett. Noct.* 98; ii. 210, 91.

a. Europe. From M. Becker's collection.

9. CARADRINA? LACINIOSA.

Mas. *Alæ anticæ fuliginæe, maculis centralibus nigris, fascia terminali albida interrupta; posticæ albidæ.*

Caradrina laciniosa, Donzel, *Ann. Soc. Ent. Fr.* 2me Sér. v. 529, 4, pl. 8, No. 1, f. 4.

Marseilles.

Group 3.

Pedes longiores, minus pilosi. *Alæ anticæ lineis maculisque minus distinctis; posticæ semihyalinæ, opalinæ.*

Allied to *Agrotis*. Legs longer, less pilose. Fore wings with the spots and lines less distinct and separate. Hind wings semi-hyaline, iridescent.

10. CARADRINA GERMAINII.

Alæ anticæ fuscæ nigro bilineatæ, macula reniformi albido-cincta, orbiculari fulvo vix notata, punctorum fulvorum duplici serie marginali; posticæ albidæ extrorsum fuscescentes.

Bryophila Germainii, Duponch. *Ann. Soc. Ent. Fr.* iv. 194, pl. 4, A, f. 2.

Caradrina Germainii, Dup. *Hist. Nat. Lép. Fr. Suppl.* iii. 309, pl. 28. *Boisd. Ind. Méth.* 137, 1101. *Herr.-Schæff. Eur. Schmett.* ii. 208, 84; ii. *Noct.* pl. 29, f. 143. *Guén. Noct.* i. 248, 398.

South France. Spain.

11. CARADRINA ANCEPS.

Fusco-cinerea; alæ anticæ linea undulata pallida venis interrupta; posticæ cinereæ.

Caradrina anceps, Friv. *Herr.-Schæff. Eur. Schmett.* ii. 209, 88; ii. *Noct.* pl. 81, f. 417.

Caradrina Germainii, var. ?

South Europe.

12. CARADRINA TERREA.

Alæ anticæ fuscæ, strigis obscurioribus undulatis, fascia fulgurali nigra, macula reniformi fusco-lutea extus albido punctulata; posticæ albidæ margine infuscato.

Caradrina terrea, *Kinderm, Frey. Neu. Beit. Schmett.* iv. pl. 303, f. 3, 4. *Boisd. Ind. Méth.* 137, 1102. *Herr.-Schæff. Eur. Schmett.* ii. 208, 85; ii. *Noct.* pl. 19, f. 90; pl. 79, f. 409. *Guén. Noct.* i. 249, 400.

South Russia.

13. CARADRINA ASPERSA.

Alæ anticæ subcinereo-rufescentes, strigis quatuor obsoletis sinuato dentatis, macula reniformi lunata nigricante, orbiculari nulla vel subnulla.

Caradrina adspersa, *Ramb. Ann. Soc. Ent. Fr.* iii. 385, pl. 8, f. 3. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 316, pl. 29. *Herr.-Schæff. Eur. Schmett.* ii. 210, 93; ii. *Noct.* pl. 89, f. 458. *Boisd. Ind. Méth.* 138, 1109. *Guén. Ann. Soc. Ent. Fr.* vi. 236; *Noct.* i. 249, 401.

Marseilles, Digne.

14. CARADRINA FUSCICORNIS.

Alæ anticæ subcinereæ, lineis tribus transversis obsoletis rufescentibus, macula reniformi punctis albis notata in medio rufa; posticæ albæ.

Caradrina fuscicornis, *Ramb. Ann. Soc. Ent. Fr.* i. 286, pl. 9, f. 5. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 318, pl. 29. *Boisd. Ind. Méth.* 138, 1108. *Guén. Noct.* i. 249, 402.

Caradrina Kadenii, var., *Guén. Ann. Soc. Ent. Fr.* vi. 236.

Corsica.

15. CARADRINA ALBINA.

Alæ anticæ thorace concolores, lutescente-cinereæ, punctis nonnullis costalibus punctisque tribus lineæ internæ nigris, serie externa flexuosa punctorum fuscorum obsoleta, maculis ordinariis dilute fusciscentibus, rotunda minuta integra, media reniformi, punctulis obsoletis albis terminata; alæ posticæ candidæ.

Caradrina albina, *Eversm. Bull. Soc. Imp. Nat. Mosc.* xxi. 3, 215, 8. *Guén. Noct.* i. 250, 403.

Southern Ural Mountains, Volga District.

16. CARADRINA KADENII.

Albido-cervina ; abdomen cinerascens ; alæ anticæ guttis costalibus nigris, macula reniformi nigro-fusca ; posticæ albæ.

Noctua Kadenii, Frey. Neu. Beit. ii. 147, pl. 186. Fisch. Rosl. Abbild. 78. pl. 36.

Caradrina Kadenii, Dup. Hist. Nat. Lép. Fr. Suppl. iii. 314, pl. 29. Boisd. Ind. Méth. 1107. Eversm. Faun. Volg-Ural. 260. Herr.-Schæff. Eur. Schmett. ii. 208, 86 ; ii. Noct. pl. 79, f. 408. Guén. Noct. i. 250, 404.

South France. Pyrenees. Hungary. South Russia.

17. CARADRINA GRISEA.

Alæ anticæ thorace concolores, e fusco cinereæ, strigis ordinariis per puncta nigra signatis, macula rotunda punctiformi nigra maculaque media reniformi nigro interrupte circumscripta ; posticæ albidæ, externe fuscescentes, puncto medio fusco.

Caradrina grisea, Eversm. Bull. Soc. Imp. Nat. Mosc. xxi. 3, 215, 7.

Caradrina Kadenii, var. ?

Ural Mountains, North Orenburg.

18. CARADRINA SELINI.

Fusco-cinerea ; abdomen testaceum ; alæ anticæ basi et apud costam albicantes, maculis duabus discalibus nigris emarginatis, exteriore transversa coarctata, venis albidis ; posticæ cinerascetes.

Caradrina Selini, Boisd. Ind. Méth. 137, 1096. Dup. Hist. Nat. Lép. Fr. Suppl. iii. 576, pl. 48. Herr.-Schæff. Eur. Schmett. ii. 210, 92 ; ii. Noct. pl. 19, f. 91. Guén. Ann. Soc. Ent. Fr. vi. 236 ; Noct. i. 251, 405.

Valais.

19. CARADRINA CUBICULARIS.

Cana ; abdomen albidum ; alæ anticæ atomis, guttis marginalibus lineisque transversis angulosis subinterruptis nigricantibus ; posticæ albæ, margine cinerascete.

Var. *Cinerea*; abdomen canescens; alæ anticæ fasciis diffusis fusciscentibus.

———, *Engr. Pap. d' Eur.* 405, a, b.

Noctua cubicularis, *Wien. Verz.* 726. *Bork. Eur. Schmett.* iv. 212, 97. *Hüb. Samml. Eur. Schmett. Noct.* pl. 89, f. 417. *Haw. Lep. Brit.* 208. *Dup. Hist. Nat. Lép. Fr.* vi. pl. 76, f. 1.

Noctua quadripunctata, *Fabr. Sp. Ins.* ii. 214, 25; *Mant. Ins.* ii. 139, 35; *Ent. Syst.* iii. 2, 22, 46.

Phalæna (*Noctua*) *quadripunctata*, *Gmel. ed. Syst. Nat.* i. 5, 2535, 1003.

Noctua segetum, *Esp. Schmett.* iv. pl. 150, f. 4. 5.

Athetis cubicularis, *Hüb. Verz. Schmett.* 209, 2091.

Caradrina cubicularis, *Treit. Schmett.* v. 2, 251, 3. *Steph. Ill Brit. Ent. Haust.* ii. 158. *Westw. & H. Brit. Moths*, i. 145, pl. 29, f. 15. *Boisd. Ind. Méth.* 138, 1111. *Herr.-Schæff. Eur. Schmett.* ii. 209, 87. *Guén. Noct.* i. 251, 406.

Noctua (*Caradrina*) *cubicularis*, *Meig. Syst. Besch.* iii. 122, 71, pl. 98, f. 10.

a—r. England. From Mr. Stephens' collection.

s—y. England.

z—aa. Europe. From M. Becker's collection.

bb. ———? Presented by the Entomological Club.

20. CARADRINA? IGNICOLA.

Rufescente-cinerea; alæ anticæ annulis fasciisque variis pallidioribus; posticæ pallidæ, lunula fascia margineque cinereis.

Noctua ignicola? *Hüb. Eur. Schmett.* f. 546.

Caradrina ignicola, *Herr.-Schæff. Eur. Schmett.* ii. 212, 100; ii. *Noct.* pl. 88, f. 455.

North Europe?

North America.

Group 1.

Like the first European group.

21. CARADRINA TARDA.

Fœm. *Cinerea*; palporum articulus 2us extus fusco maculatus; alæ anticæ lineis duabus medianis nigris remotis gracillimis, maculis reniformi et orbiculari puncta dua nigra fingentibus, nebula intermedia vix conspicua; posticæ pallidiores.

Caradrina tarda, Guén. Noct. i. 243, 389.

North America.

Group 2.

Like the second European group.

22. CARADRINA MULTIFERA.

Cinerea; thorax nigro conspersus; alæ anticæ nigro conspersæ, lituris costalibus lineisque transversis angulosis nigris, fasciis duabus guttisque marginalibus fuscis, macula orbiculari parva, reniformi magna subfusiformi; posticæ ciliis albidis.

Cinereous. Thorax and fore wings with blackish speckles. Fore wings with black marks on the costa, with blackish zigzag transverse lines, with two brownish bands, and with brown marginal dots; orbicular spot small; reniform spot large, nearly fusiform. Hind wings with whitish ciliæ. Length of the body 5 lines; of the wings 12 lines.

a, b. Nova Scotia. From Lieut. Redman's collection.

Group 3.

Like the second European group.

23. CARADRINA GRATA.

Pallide fusca; alæ anticæ lineolis quatuor transversis pallidioribus, 1a, 2a, 3a que medio divisis; posticæ cinereæ basi canæ.

Elaphria grata (Noctua genuina, Agrotis subtilis), Hübn. Samml. Exot. Schmett. i. 16, 36, f. 71, 72.

Georgia, Florida.

Africa.

Group 1.

Like the second European group.

24. CARADRINA TORPENS.

Alæ anticæ carneo-cinereæ, nigro conspersæ, lineis duabus medianis sat approximatis bene determinatis, maculis reniformi et orbiculari parvis, punctis nullis marginalibus; posticæ nigro-cinereæ, basi ciliisque pallidioribus, his basi carneo lineatis.

Caradrina torpens, Guén. Noct. i. 244, 391.
Abyssinia.

25. CARADRINA PARTITA.

Pallide cervina; abdomen pallidissimum; alæ anticæ lineis transversis undulatis fuscescentibus, macula orbiculari obsoleta, reniformi fuscescente incompleta albo guttata; posticæ albidæ.

Pale fawn-colour. Abdomen much paler than the thorax. Fore wings with five or six transverse undulating brownish lines; orbicular spot obsolete; reniform spot brownish, incomplete, with a white dot. Hind wings whitish. Length of the body 5 lines; of the wings 12 lines.

a. Congo. Presented by Sir J. Richardson.

26. CARADRINA ORBICULARIS.

Cervina; abdomen pallidum; alæ anticæ lineis nonnullis transversis undulatis fuscescentibus pallido marginatis, maculis reniformi et orbiculari distinctis, hac pallide cervina fusco marginata, illa fuscescente cervino marginata; posticæ albidæ, linea marginali fuscescente.

Fawn-colour. Abdomen much paler than the thorax. Fore wings with several transverse undulating brownish lines, which are mostly interrupted and bordered with pale fawn-colour; reniform spot and orbicular spot distinct, the former brownish with a pale fawn-coloured border, the latter pale fawn-colour with a brown border. Hind wings whitish, with a brownish marginal line. Length of the body $4\frac{1}{2}$ —5 lines; of the wings 13—14 lines.

a, b. South Africa. Presented by Dr. A. Smith.

27. CARADRINA PRÆTERITA.

Pallide cervina; alæ anticæ nitentes, lineis duabus transversis indistinctis undulatis obscurioribus, macula reniformi nigricante, orbiculari albido marginata; posticæ albæ, opalinæ.

Pale fawn-colour. Abdomen a little paler than the thorax. Fore wings shining, with two indistinct undulating transverse darker lines, which include the reniform spot and the orbicular spot; the former is mostly blackish, the latter has a whitish border.

Hind wings white, opaline. Length of the body 4 lines; of the wings 12 lines.

a, b. South Africa. Presented by Dr. A. Smith.

28. CARADRINA PULVEROSA.

Pallidissime cervina; alæ anticæ lineis transversis angulosis fusciscentibus, linea transversa angulosa submarginali albida, maculis costalibus guttisque marginalibus nigriscentibus, maculis reniformi et orbiculari distinctis fuscis, hac parva rotunda, illa angusta; posticæ albæ, opalinæ.

Very pale fawn-colour. Fore wings with zigzag transverse brownish lines, with a submarginal zigzag transverse whitish line, with blackish costal spots, and with blackish marginal dots; reniform spot and orbicular spot distinct, mostly brown, the former narrow, contracted in the middle; the latter small, round. Hind wings white, opaline. Length of the body 5 lines; of the wings 12 lines.

a. Caffraria. From M. Becker's collection.

29. CARADRINA INSIGNATA.

Pallide cervina; alæ anticæ fusco subconspersæ, fasciis nonnullis incompletis fusciscentibus fasciæque submarginali e strigis albidis, maculis reniformi et orbiculari fuscis, hac parva, ciliis albido notatis; posticæ albæ, opalinæ.

Resembles the *Laphygma*. Pale fawn-colour. Abdomen paler than the thorax. Fore wings slightly sprinkled with brown; some incomplete brownish bands, and a submarginal band of whitish streaks; reniform spot and orbicular spot brown, the latter small; ciliæ with whitish intervals. Hind wings white, opaline. Length of the body 5 lines; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

30. CARADRINA TRITURATA.

Pallide cervina; alæ anticæ macula discali guttisque marginalibus fuscis; posticæ albæ, opalinæ, semihyalinæ.

Resembles a *Laphygma*. Pale fawn-colour. Abdomen paler than the thorax. Fore wings with a brown discal spot and with brown dots along the exterior border. Hind wings white, opaline, semihyaline. Length of the body 6 lines; of the wings 16 lines.

Var.? *Testacea*; *abdomen albido-testaceum*; *alæ anticæ lineis transversis interruptis undulatis fusciscentibus, macula subcostali nigricante guttisque marginalibus nigris*; *posticæ albæ*.

Testaceous. Abdomen whitish testaceous. Fore wings with interrupted transverse undulating brownish lines; a blackish spot near the costa beyond the middle, and a row of black marginal dots. Hind wings white. Length of the body 5 lines; of the wings 12 lines.

a, b. Sierra Leone. Presented by the Rev. D. F. Morgan.

31. CARADRINA COMBINATA.

Fœm. *Testacea*; *thorax fusco conspersus*; *abdomen pallidum*; *pallidum*, *alæ anticæ fusco conspersæ, lineis transversis incompletis undulatis fuscis, linea transversa exterior e guttis albidis, fascia marginali fusca, macula orbiculari subelliptica, reniformi strigaeque cinerea conjunctis*; *posticæ subcinereæ marginibus pallide fusciscentibus, ciliis albidis*.

Female. Testaceous. Thorax and fore wings speckled with brown. Abdomen rather paler than the thorax. Fore wings with transverse undulating incomplete brown lines, with an exterior transverse line of whitish dots, and with a marginal brown band; orbicular spot subelliptical, rather smaller than the reniform, which is traversed by a longitudinal gray streak. Hind wings slightly cinereous, with pale brownish borders; ciliæ whitish. Length of the body $5\frac{1}{2}$ lines; of the wings 13 lines.

a—c. Congo. Presented by Sir J. Richardson.

d—f. ———? Presented by J. G. Children, Esq.

32. CARADRINA CONDUCTA.

Mas et fœm. *Cinerea*; *thorax fasciis fusciscentibus*; *abdomen albido-cinereum*; *alæ anticæ lineis transversis incompletis undulatis testaceis, renis obscuris albido guttatis, orbiculari et reniformi indistinctis, hac albo guttata, illa parra, linea marginali nigra*; *posticæ pallide cinereæ, marginibus latis fusciscentibus, ciliis albidis*.

Male and female. Cinereous. Thorax with brownish bands. Abdomen whitish cinereous. Fore wings with incomplete trans-

verse undulating testaceous lines ; veins dark, with whitish dots ; orbicular and reniform spots indistinct, the former rather small, the latter with white dots ; a marginal black line. Hind wings pale cinereous, with broad brownish borders ; ciliæ whitish. Length of the body 5—6 lines ; of the wings 14—16 lines.

a—c. Congo. Presented by Sir J. Richardson.

d—f. ——— ? Presented by J. G. Children, Esq.

33. CARADRINA ATRILUNA.

Mas et fœm. *Flavescente-cinerea ; palporum articulus 2us nigro maculatus ; alæ anticæ lineis obsoletis aut indistinctis, guttis tribus costalibus nigris, macula orbiculari obsoleta aut punctum vix conspicuum fingente, reniformi distincta angusta nigro-fusca flavido-fusco marginata ; posticæ albæ, subopalinæ, cinereo submarginatæ.*

Caradrina atriluna, Guén. Noct. i. 252, 407.

Abyssinia.

Bourbon and Mauritius.

34. CARADRINA IGNAVA.

C. blandæ et C. ambiguæ affinis ; palpi validi, plus ascendentes ; alæ anticæ testaceo-cinereæ, lituris indistinctis, lineis medianis approximatis subparallelis, macula orbiculari punctum nigrum fingente, reniformi indeterminata postice nigricante punctisque albis notata ; posticæ subhyalinæ testaceo-cinereo sordidæ.

Caradrina ignava, Guén. Noct. i. 247, 394.

Mauritius.

35. CARADRIEA PIGRA.

Fœm. *Testaceo-cinerea ; palpi nigro-cinerei, apice pallidi ; alæ anticæ subnitentes, lineis duabus nebulaque medianis fasciæque marginali subparallelis subflexuosis, macula reniformi e umbra indistincta rufescente punctisque subobsoletis albis ; posticæ albæ, subopalinæ, margine cinerascente.*

Caradrina pigra, Guén. Noct. i. 248, 399.

Bourbon.

Asia.

Group 1.

Like the second European group.

36. CARADRINA PAUCIFERA.

Testacea; alæ antice guttis duabus (una basali altera discali) fasciaque exteriore guttulari fuscis, guttis marginalibus nigris, maculis orbiculari et reniformi obsoletis; posticæ cinereæ, marginibus fusciscentibus, ciliis albidis.

Testaceous. Fore wings with a brown dot near the base, with another in the disk, with an exterior band of brown dots, and with a more distinct marginal row of black dots; reniform spot and orbicular spot obsolete. Hind wings cinereous, brownish towards the borders; ciliæ whitish. Length of the body 6 lines; of the wings 12 lines.

a. Hindostan. From Archdeacon Clerk's collection.

37. CARADRINA BISTRIGATA.

Alæ antice obsolete ferrugineo-cinereæ, ad costam luteo punctatæ, strigis duabus undulatis distinctioribus inter strigas maculis ordinariis, albido-cinctis; exteriore reniformi semilutescente; posticæ cinereæ.

Caradrina bistrigata, Bremer und Grey, Beitr. zur Schmett. Fauna des Nordlichen China's, 17, 87.

North China.

Country unknown.

38. CARADRINA CONFORMIS.

Cervina; alæ antice lineis nonnullis transversis subundulatis fusciscentibus, linea exteriore cervino pallido extus marginata, maculis reniformi et orbiculari subobsoletis; posticæ pallide cervinæ, nitentes.

Fawn-colour. Abdomen paler than the thorax. Fore wings with four or five brownish transverse slightly undulating lines, the exterior one bordered on its outer side with pale fawn-colour; reniform spot and orbicular spot almost obsolete. Hind wings pale fawn-colour, shining. Length of the body 5 lines; of the wings 12 lines.

a. ——— ? From Mr. Milne's collection.

39. CARADRINA INDICATA.

Pallidissime cervina; *alæ anticæ guttis costalibus nigris, macula reniformi nigra albido marginata, orbiculari obsoleta*; *posticæ albæ, opalinæ.*

Very pale fawn-colour. Abdomen paler than the thorax. Fore wings with black dots along the costa; reniform spot black, of the usual form, with a whitish border; orbicular spot obsolete. Hind wings white, opaline. Length of the body 4 lines; of the wings 10 lines.

a. ———?

40. CARADRINA? CONSOCIA.

Fœm. Cinerea; *thorax strigis duabus transversis nigris*; *alæ anticæ lineis transversis interruptis pallidioribus et nigricantibus, claviformi indistincta, orbiculari et reniformi distinctis albido marginatis, illa subquadrata, strigis submarginulibus lanceolatis nigris*; *posticæ cinereæ.*

Female. Cinereous. Third joint of the palpi much longer than in the typical species. Thorax with a minute transverse black streak on each side in front. Abdomen paler than the thorax. Fore wings with transverse irregular and interrupted paler and blackish transverse lines; claviform mark indistinct; orbicular and reniform distinct, with whitish borders, the former somewhat quadrate; a submarginal row of lanceolate black streaks. Hind wings cinereous. Length of the body 5 lines; of the wings 11 lines.

a, b. ———? Presented by the Entomological Club.

Genus 6. AMYNA.

Mas et fœm. Proboscis gracilis, mediocriter longa. Palpi breves, recti, squamosi, bicolores; articulus 2us rectangulatus; 3us fere similis minor. Antennæ graciles, filiformes, approximatae, ciliis paucis sparsis. Thorax lævis, subquadratus, vix robustus. Abdomen læve, gracile. Pedes antici longi, graciles, subsquamosi. Alæ anticæ integræ, trigonæ, apice acuminatæ; posticæ latæ, rotundatæ. *Mas.*—Abdomen conicum. *Fœm.*—Abdomen subconicum.

Amyna, Guén. Noct. i. 406.

Perigea, p., Guén. Noct. i. 233.

Male and female. Body smooth. Proboscis slender, moderately long. Palpi short, straight, squamose, with two colours;

second joint rectangular; third nearly like the second in shape, but smaller. Antennæ filiform, slender, approximate, with a few isolated bristles. Thorax subquadrate, hardly robust. Abdomen slender. Fore legs long, slender, slightly squamose. Fore wings entire, triangular, acuminate at the tips, with dark lines. Hind wings broad, much rounded, without marks above, distinctly marked beneath. *Male*.—Abdomen conical. *Female*.—Abdomen nearly conical.

1. AMYNA SELENAMPHA.

Cinerea; alæ anticæ lineis duabus interruptis lunulatis punctisque marginalibus nigricantibus, maculi reniformi et orbiculari indistinctis vix pallidioribus umbra intermedia obscuriore, reniformi arcata postice alba; posticæ nigricante cinereæ, ciliis albo notatis.

Amyna Selenampha, Guén. Noct. i. 406, 378, a.

Silhet. Manilla.

2. AMYNA AXIS.

Rufescente-cinerea; alæ anticæ subintegræ, subacuminatæ, lineis, punctis costalibus maculaque reniformi pallidioribus, hac magna figuram 8 fingente.

Perigea octo, Guén. Noct. i. 233, 377.

Var. β . *Macula reniformis postice albo notata.*

Amyna Axis, Guén. Noct. i. 407, 378, b.

Tahiti.

Fam. 5. NOCTUIDÆ.

Corpus robustum. Proboscis longiuscula aut mediocriter longa. Palpi breves, pilosi, porrecti aut ascendentes; articulus 3us sæpissime, brevissimus. Antennæ maris nonnunquam pectinatæ. Abdomen planum, non cristatum. Pedes validi; tibiæ anticæ sæpe spinosæ; posticæ calcaribus longis. Alæ mediocriter latæ; anticæ planæ, non deflexæ.

Noctuidi, Boisd. Ind. Méth. 63. Guén. Ann. Soc. Ent. Fr. vi. 347.

Noctuidæ, Guén. Noct. i. 253.

Noctuidæ, p., *Steph. Ill. Brit. Ent. Haust.* ii. 100.

Noctuelidi, p., *Steph. Cat. Brit. Lep.* 59.

Body stout. Proboscis long or moderately long. Palpi short, pilose, porrect or ascending; third joint generally very short. Antennæ of the male occasionally pectinated. Abdomen flat, not crested, not extending much beyond the hind wings. Legs stout, pilose; fore tibiæ often spinose, occasionally short; hind tibiæ with more or less long spurs. Wings moderately broad. Fore wings flat, not deflexed.

A. Fasciculus frontalis prominens.

A. Palpi longiusculi. - - - - 1. *RUSINA*, *Steph.*

B. Palpi breves.

a. Palpi porrecti.

a. Antennæ maris sæpissime pectinatæ aut crenulatæ.

i. Statura sat magna.

* *Antennæ maris pectinatæ, ciliatæ, aut pubescentes.*

2. *AGROTIS*, *Ochs.*

** *Antennæ maris subcrenulatæ.* 7. *CHERSOTIS*, *Boisd.*

ii. Statura parva. - - - - 3. *LYCOPHOTIA*, *Hübner.*

b. Antennæ maris simplices.

i. Alæ anticæ margine exteriore vix obliquo.

8. *OPIGENA*, *Boisd.*

ii. Alæ anticæ margine exteriore sat obliquo.

5. *CHERA*, *Hübner.*

B. Palpi ascendentes.

a. Palporum articulus 3us brevissimus. 4. *HAPALIA*, *Hübner.*

b. Palporum articulus 3us 2i dimidio brevior.

6. *SPÆLOTIS*, *Boisd.*

B. Fasciculus frontalis non prominens.

A. Alæ posticæ luteæ.

A. Palpi longiusculi. - - - - 9. *EPILECTA*, *Hübner.*

B. Palpi breves. - - - - 10. *TRIPHENA*, *Ochs.*

B. Alæ posticæ non luteæ.

A. Alæ anticæ costa pallida. - 12. *OCHROPLEURA*, *Hübner.*

B. Alæ anticæ costa non pallida.

a. Palpi plus exserti. - - 11. *GRAPHIPHORA*, *Ochs.*

b. Palpi minus exserti. - - 13. *SEGESTIA*, *Steph.*

Genus 1. RUSINA.

Corpus robustum. Proboscis mediocriter longa. Palpi pilosi, longiusculi, ascendentes; articulus 3us cylindricus, 2i dimidio non brevior. Antennæ corporis dimidio longiores. Abdomen alas posticas triente superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ, non longæ; anticæ apud costam rectæ, apice rectangulatæ, margine exteriori non obliquo. *Mas.*—Antennæ subcrenulatæ.

Rusina, *Steph. Ill. Brit. Haust.* iii. 111. *Boisd.; Dup.; Guén. Ann. Soc. Ent. Fr.* vi. 346; *Noct.* i. 255.

Agrotis, p., *Ochs.; Treits.*

Noctua, p., *Boisd.*

Scotia, p., *Hübner. Verz. Schmett.* 226.

Body stout. Proboscis moderately long. Palpi rather long, pilose, ascending; third joint cylindrical, full half the length of the second. Antennæ more than half the length of the body. Abdomen extending for about one-third of its length beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad, not long. Fore wings straight in front, rectangular at the tips, not oblique along the exterior border; first, second and third inferior veins approximate; fourth very remote. *Male.*—Antennæ minutely crenulate.

1. RUSINA TENEBROSA.

Obscure ferruginea; abdomen cinereum; alæ anticæ puncto discali albido, fasciis duabus nigro-ferrugineis, lineis transversis undulatis nigris; posticæ cinereæ.

———, *Engr. Pap. d'Eur.* 387, a—c.

Noctua tenebrosa, *Hübner. Samml. Eur. Schmett. Noct.* pl. 33, f. 158; pl. 107, f. 503. *Frey. Neu. Beit. Schmett.* i. pl. 40. *Dup. Hist. Nat. Lép. Fr.* iii. 11, pl. 72. *Boisd. Ind. Méth.* 100, 752.

Agrotis tenebrosa, *Treit. Schmett. Eur.* v. 1, 180, 26.

Rusina tenebrosa, *Steph. Ill. Brit. Haust.* ii. 112. *Guén. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 256, 408. *Herr.-Schäff. Eur. Schmett.* ii. 207, 82.

Bombyx ferruginea, *Esp. Schmett. Ramb.* iii. pl. 47, f. 5, 6.

Scotia tenebrosa, *Hübner. Verz. Schmett.* 226, 2267.

Noctua (Agrotis) tenebrosa, *Meig. Syst. Besch.* iii. 93, 20, pl. 94, f. 10.

- a.* England. From Mr. Haworth's collection.
b—p. England. From Mr. Stephens' collection.
q. England. From Mr. Stevens' collection.
r. Scotland. From Mr. Foxcroft's collection.
s—v. England.
u—y. Europe. From M. Becker's collection.

2. RUSINA QUADRANGULA.

Nigro-fusca; alæ anticæ cinereo tinctæ lineis transversis undulatis obscurioribus, orbiculari et reniformi concoloribus indistinctis macula quadrata fusco-nigra divisis; posticæ cinereo nigricantes.

Agrotis quadrangula, Eversm. Faun. Volg-Ural. 201.

Rusina quadrangula, Herr.-Schæff. Schmett. Eur. ii. pl. f. 496. Guén. Noct. i. 256, 409.

Ural District. Sarepta. Caucasus.

Genus 2. AGROTIS.

Corpus robustum. Proboscis mediocriter longa. Palpi porrecti, validi, pilosi; articulus 3us longi-conicus, 2i quadrante non longior. Antennæ corporis dimidio valde longiores. Abdomen alas posticas plus minusve superans. Pedes validi; tibiæ anticæ sæpissime spinosæ, posticæ calcaribus quatuor longis. Alæ plus minusve longæ latæque; anticæ apud costam rectæ, apice rotundatæ aut vix angulatæ, margine exteriori plus minusve obliquo. *Mas.*—Antennæ pectinatæ, ciliatæ aut pubescentes.

Agrotis, Ochs. Syst. Gloss. Schmett. von Eur. iv. Steph.; Boisd. Icon.; Guén. Ann. Soc. Ent. Fr. vi. 352; Noct. i. 257.

Noctua, *Boisd. Index.*

Lytæa, *p., Steph.*

Opigena, *Steph.*

Agronoma, *Telmia, Omia, Peridroma, Georyx, Scotia, p., Brotis et Metaxya, Hübn. Verz. Schmett.*

Body stout. Proboscis moderately long. Palpi porrect, stout, pilose; third joint elongate-conical, not more than one fourth of the length of the second. Antennæ very much more than half the length of the body. Abdomen extending more or less beyond the hind wings. Legs stout; hind tibiæ with four long spurs; fore

tibiæ generally spinose. Wings more or less broad and long. Fore wings straight in front, rounded or hardly angular at the tips, more or less oblique along the exterior border. *Male*.—Antennæ pectinated, ciliated, or pubescent.

The following groups of Guénée will hardly admit of definition; their characters are therefore omitted.

Europe.

Group 1.

A. Alæ anticæ venis pallidis.

A. Alæ breviusculæ. - - - - - obesa, *Boisd.*

B. Alæ longiores.

A. Alæ posticæ albæ. - - - - - *Graslinii, Ramb.*

B. Alæ posticæ obscuræ.

a. Antennæ maris pectinatæ. - - - trifurca, *Eversm.*

b. Antennæ maris vix pectinatæ. - - - fatidica, *Hübner.*

B. Alæ anticæ venis obscuris.

A. Alæ anticæ breviores. - - - - - puta, *Hübner.*

B. Alæ anticæ longiores.

A. Alæ anticæ plus minusve cervinæ.

a. Alæ posticæ maris margine obscuro.

i. Antennæ maris pectinatæ. - suffusa, *Wien. Verz.*

ii. Antennæ maris vix pectinatæ. - velligera, *Wien. Verz.*

b. Alæ posticæ maris totæ albæ.

i. Alæ anticæ macula nulla apicali. - lata, *Treit.*

ii. Alæ anticæ macula apicali testacea. - spinifera, *Hübner.*

B. Alæ anticæ fusæ. - - - - - crassa, *Hübner.*

c. Alæ anticæ nigro-cinereæ, postice testaceæ.

Fennica, Eversm.

d. Alæ anticæ rufescente-albidæ, cinereo-fuscoque variæ.

endogæa, Boisd.

e. Alæ anticæ flavo-stramineæ, vitta rufescente.

sagitta, Hübner.

f. Alæ anticæ albedo-testaceæ, fascia cinerea.

erythroxylea, Treit.

1. AGROTIS OBESA.

Cervina; abdomen pallide cinerascens; alæ anticæ guttis duabus basalibus, ocellis duabus discalibus, strigis costalibus, maculis in serie duplici exterioribus fasciisque duabus flexis intermediis venisque nigris testaceo ex parte marginatis, ciliis albidis; posticæ fuscæ, basi costa ciliisque albidis.

Agrotis obesa, Boisd. Ind. Méth. 112, 858. Icon. Léop. d'Eur. pl. 75, f. 1, 2. Guén. Ann. Soc. Ent. Fr. vi. 241; Noct. i. 259, 411. Treit. Schmett. Eur. Suppl. x. 42. Dup. Hist. Nat. Léop. Fr. Suppl. iii. 173, pl. 16. Herr.-Schæff. Schmett. Eur. ii. pl. 5, f. 22.

South France.

2. AGROTIS LATA.

Rufescente-cinerea (mas) aut *cinereo-cervina* (fœm.); antennæ maris pectinatæ; abdomen maris albidum, fœm. cinereum; alæ anticæ fasciis angulosis pallidioribus et nigricantibus, maculis distinctis sat magnis, pallidiore et nigricante marginatis, orbiculari subelliptico; posticæ maris albæ, fœm. cinereæ.

Agrotis lata, Treit. Schmett. Eur. Suppl. x. 24. Frey. Heiger. Boisd. Ind. Méth. 111, 856. Herr.-Schæff. Schmett. Eur. ii. pl. 4, f. 20; pl. 6, f. 29. Guén. Noct. i. 260, 412.

Agrotis crassa, var. ?

Sicily.

3. AGROTIS CRASSA.

Fœm. *Fusca*; abdomen cervino-albidum; alæ anticæ nebulis, lineis duabus transversis undulosis duplicatis necnon denticulis ocelloque intermediis denticulisque majoribus exterioribus nigricantibus; posticæ albæ, margine fuscæ.

———, Engr. Pap. d'Eur. 446, b; 448, b, c.

Noctua crassa, Hübn. Samml. Eur. Schmett. Noct. pl. 121, f. 560 (mas); God. Hist. Nat. Léop. Fr. v. 236, pl. 67, f. 1, 2.

Agrotis crassa, Treit. Schmett. Eur. v. 1, 166, 19. Boisd. Ind. Méth. 111, 857. Guén. Ann. Soc. Ent. Fr. vi. 241; Noct. i. 260, 414.

Noctua Tritici, Wien. Verz. 81, 10.

- Noctua segetum*, *Esp. Schmett.* pl. 60, f. 5.
Agronoma crassa, *Hüb. Verz. Schmett.* 227, 2276.
Bombyx segetum, *Esp. Schmett.* iii. pl. 60, f. 5.
Noctua (Agrotis) crassa, *Meig. Syst. Besch.* iii. 91, 16, pl. 95, f. 4.
a, b. Europe. From M. Becker's collection.
c—f. Gibraltar. From Mr. Milne's collection.
g. Italy. From Dr. Leach's collection.

4. AGROTIS FATIDICA.

Cervina ; thorax ex parte albido pilosus, fascia antica nigricante ;
 alæ anticæ lituris basalibus et costalibus strigis discalibus et
 exterioribus punctisque marginalibus nigricantibus, maculis
 nigro ex parte marginatis, claviformi elongata, orbiculari et
 reniformi macula fusca divisis, hac sublunata, illa elliptica ;
 posticæ cinerascens. Mas.—Antennæ subpectinatæ.

Noctua fatidica, *Hüb. Samml. Eur. Schmett.* 704.

Agrotis fatidica, *Boisd. Ind. Méth.* 111, 854. *Herr.-Schæff.*
Schmett. Eur. ii. pl. 89, f. 456. *Guén. Noct.* i. 262, 418.

South Russia.

a. Europe. From M. Becker's collection.

5. AGROTIS VALLIGERA.

Fusca ; thorax postice albidus ; abdomen subtestaceum, basi albidum, maculis lateralibus nigris ; alæ anticæ canescentes, fusco varicæ, ocellis duobus maculaque posteriore obscure fuscis cano nigroque marginatis ; posticæ albidæ, macula discali margineque subcinereis.

———, *Engr. Pap. d' Eur.* 441.

Phalæna-Noctua valligera, *Gmel. ed. Syst. Nat.* i. 5, 2541, 1026.

Noctua valligera, *Wien. Verz.* 80, 9. *Fabr. Mant. Ins.* ii. 158, 157 ; *Ent. Syst.* iii. 2, 72, 203. *Bork. Eur. Schmett.* iv. 551, 224. *Hüb. Samml. Eur. Schmett. Noct.* pl. 32, 250 ; pl. 101, f. 478. *Haw. Lep. Brit.* 179. *God. Hist. Nat. Léop. Fr.* v. 223, pl. 65, f. 2, 3. *Frey. Neu. Beit. Schmett.* i. pl. 81.

Agrotis valligera, *Treit. Schmett. Eur.* v. 163, 18. *Steph. Ill. Brit. Haust.* ii. 118. *Boisd. Ind. Méth.* 111, 855. *Guén. Noct.* i. 263, 419.

Agronoma valligera, *Hüb. Verz. Schmett.* 227, 2278.

Noctua clavis, *Esp. Schmett.* iii. pl. 63, f. 5.

Noctua trigonalis, *Esp. Schmett.* iii. pl. 75, f. 6.

Noctua (*Agrotis*) *valligera*, *Meig. Syst. Besch.* iii. 90, 15, pl. 93, f. 8.

a—r. England. From Mr. Stephens' collection.

s—u. England.

w, x. Europe. From M. Becker's collection.

6. AGROTIS ENDOGÆA.

Rufescente-albida; *antennæ maris pectinatæ*; *palpi albi, fusco maculati*; *abdomen ochraceo tinctum*; *alæ anticæ cinereo tinctæ, fusco nebulosæ, lineis medianis subobsoletis, strigis exterioribus lanceolatis bene determinatis, macula apicali obscura, orbiculari longi-ovata fusco pupillata, reniformi sat magna nigro plagiata*; *posticæ albæ.*

Agrotis endogæa, *Boisd. Icon. Lép. d'Eur.* pl. 75, f. 5; *Ind. Méth.* 109, 832. *Guén. Ann. Soc. Ent. Fr.* vi. 241; *Noct.* i. 264, 420.

Var. *Agrotis sabulosa*, *Ramb. Faun. Andal.*

Corsica. South Spain.

7. AGROTIS GRASLINII.

Cinereo-rufescens; *alæ anticæ supra lineis duabus sinuatis albidis, media venulis externa lineolis sagittatis fuscis oblitteratis, macula reniformi fusca albo intus marginata, orbiculari minima elongata alba nigro subocellata*; *alæ posticæ albæ*; *antennæ maris pectinatæ.*

Agrotis Graslinii, *Rambur, Ann. Soc. Ent. Fr. 2me Sér.* vi. 70, pl. 1, No. 1, f. 1, 2. *Guén. Noct.* i. 264, 421.

West France.

a. Europe. From M. Becker's collection.

8. AGROTIS SAGITTA.

Flavo-straminea; *alæ anticæ vitta discali abbreviata dislocata maculis interrupta rufescente, strigis exterioribus interruptis lanceolatis nigricantibus, maculis albedo nigroque ex parte marginatis, orbiculari parva rotunda*; *posticæ albidæ, margine cinerascente.*

Noctua sagitta, *Hübner. Samml. Eur. Schmett. Noct.* f. 596.

Telmia sagitta, *Hübner. Verz. Schmett.* 228, 2284.

Agrotis sagitta, *Boisd. Ind. Méth.* 111, 850. *Herr.-Schæff. Schmett. Eur.* ii. pl. 6, f. 26. *Guén. Ann. Soc. Ent. Fr.* vi. 241; *Noct.* i. 265, 422.

South Russia.

9. AGROTIS TRIFUSCA.

Cinerascens; *thorax fascia antica nigro-fusca*; *abdomen pallidum*; *alæ anticæ disco ex parte, costa margineque exteriori fuscis, strigis exterioribus lunulisque marginalibus nigris, maculis nigro marginatis, claviformi et orbiculari longissimis, reniformi lunulata*; *posticæ albidæ, marginibus fusciscentibus.*

Agrotis trifusca, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1837, 1; *Faun. Volg-Ural.* 198. *Herr.-Schæff. Schmett. Eur.* ii. pl. 25, f. 120. *Guen. Noct.* i. 265, 423.

South Russia.

10. AGROTIS SPINIFERA.

Cervina; *abdomen albido-testaceum*; *alæ anticæ fascia exteriori e maculis nigris, macula apicali testacea, maculis discalibus nigro marginatis claviformi elongata*; *posticæ albidæ.*

Noctua spinifera, *Hübner. Samml. Eur. Schmett.* 389.

Telmia spinula, *Hübner. Verz. Schmett.* 228, 2285.

Agrotis spinifera, *Treit. Schmett. Eur.* vi. 1, 382; *Suppl.* x. 2, 24. *Boisd. Ind. Méth.* 109, 830. *Herr.-Schæff. Schmett. Eur.* ii. pl. 5, f. 24. *Guén. Ann. Soc. Ent. Fr.* vi. 241; *Noct.* i. 265, 424.

Sicily. South Spain.

11. AGROTIS PUTA.

Pallide fusca; *abdomen albidum*; *alæ anticæ basi margine exteriori, lineis transversis undulatis lineolisque discalibus fuscis, ocello discali reniformi obscuriore*; *posticæ albidæ, litura discali fusco.*

Noctua puta, *Hübner. Samml. Eur. Schmett.* 255.

Omia puta, *Hübner. Verz. Schmett.* 245, 2436.

Agrotis puta, *Treit. Schmett. Eur.* iii. 32; *Suppl.* 213. *God. Hist. Nat. Lép. Fr.* ii. 243, pl. 67, f. 7. *Guén. Ann. Soc. Ent. Fr.* vi. 241; *Noct.* i. 266, 427. *Boisd. Ind. Méth.* 111, 852.

- Var. ———, *Engr. Pap. d'Eur.* 440, a, b; 449, a.
Noctua renitens, *Hübner. Eur. Schmett.* f. 715—717.
Noctua lignosa, *God. Hist. Nat. Léop. Fr.* ii. 241, pl. 67, f. 5, 6.
Bombyx radius, *Haw. Lep. Brit.* 67.
Agrotis radiola, *Steph. Ill. Brit. Ent. Haust.* ii. 110, pl. 20, f. 1.
Agrotis puta, *Boisd. Icon. Léop. d'Eur.* pl. 81.
a—d. England. Presented by W. Wing, Esq.
e—r. England. From Mr. Stephens' collection.
s. England.
t, v. Europe. From M. Becker's collection.
u. Gibraltar. From Mr. Milne's collection.
w. ———?

Five varieties of this species are described by Bentley, in 'The Entomologist,' p. 255.

12. AGROTIS ERYTHROXYLEA.

Albido-testacea; alæ anticæ fascia lata basali cinerea extus undulata et interlineata, macula reniformi albo nigroque marginata, linea exterior transversa guttulari nigra, lineolis submarginibus albis, plaga marginali rufa; posticæ albidæ.

- Agrotis erythroxylea*, *Treit. Schmett. Eur.* iii. 31. *Boisd. Ind. Méth.* 109, 831. *Herr.-Schæff. Schmett. Eur.* ii. pl. 6, f. 28.
Guén. Ann. Soc. Ent. Fr. vi. 241; *Noct.* i. 267, 428.

Italy.

13. AGROTIS SUFFUSA.

Cervina, nonnunquam obscurior; thorax antice nigro fasciatus; abdomen pallidum; alæ anticæ lineis transversis duplicatis undulatis fuscis, linea transversa exterior angulosa pallida, strigis duabus exterioribus unaque apud reniformem atris, maculis ex parte nigro marginatis, claviformi elongata, orbiculari pyriformi; posticæ albæ (mas) aut cinereæ (fœm.) margine obscuriore, ciliis albidis.

- , *Engr. Pap. d'Eur.* 452, a—c.
Phalæna-Noctua suffusa, *Gmel. ed. Syst. Nat.* i. 5, 2541, 1028.
Noctua suffusa, *Wien. Verz.* 80, 4. *Fabr. Mant. Ins.* ii. 157, 155; *Ent. Syst.* iii. 2, 71, 201. *Bork. Eur. Schmett.* 223. *Hübner. Samml. Eur. Schmett. Noct.* pl. 28, f. 34. *Haw. Lep. Brit.* 155. *God. Hist. Nat. Léop. Fr.* v. 255, pl. 69, f. 1, 2.
Agrotis suffusa, *Treit. Schmett. Eur.* v. 1, 152, 15. *Steph. Ill. Brit. Haust.* ii. 116. *Boisd. Ind. Méth.* 109, 822. *Guén. Noct.* i. 268, 431.

Phalæna-Bombyx idonea, *Cram. Pap. Exot.* iii. 150, pl. 275, f. H.

New York.

Phalæna-Noctua idonea, *Cram. Pap. Exot.* iv. 43, pl. 311, f. A.
Surinam.

Bombyx spinula, *Esp. Schmett.* iii. pl. 63, f. 6, 7.

Peridroma suffusa, *Hübner. Verz. Schmett.* 227, 2275.

Noctua (Agrotis) suffusa, *Meig. Handb.* 154, 17; *Syst. Besch.* iii. 87, 10, pl. 94, f. 3.

a, b. England. Presented by W. Wing, Esq.

c—p. England. From Mr. Stephens' collection.

q. England.

r, s. Europe. From M. Becker's collection.

t. Orilla, West Canada. From Mr. Bush's collection. (Colour very dark).

v, u. Philadelphia. Presented by E. Doubleday, Esq.

w—aa. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

bb. Nova Scotia. From Lieut. Redman's collection.

cc—ee. Venezuela. From Mr. Dyson's collection.

ff. New Zealand. Presented by Dr. Sinclair.

gg—jj. New Zealand. Presented by Col. Bolton.

kk. New Zealand. From Mr. Earl's collection.

ll. Punjaub. Presented by General Hearsay.

mm. North China. From Mr. Fortune's collection.

nn. North India. From Mr. James' collection.

oo. Silhet. From Mr. Melly's collection.

pp, qq. South Africa. Presented by Dr. A. Smith.

rr. Cape. From M. Dregé's collection.

ss, tt. Egypt. Presented by J. Burton, Esq.

vv. Monte Video. Presented by C. Darwin, Esq.

uu. Bahia. Presented by C. Darwin, Esq.

ww. Moreton Bay. Presented by Morton Allport, Esq.

xx, yy. Adelaide. Presented by the Entomological Club.

14. AGROTIS FENNICA.

Nigro-cinerea; abdomen testaceum; alæ anticæ postice testaceæ, lineis transversis duplicatis undulatis nigris, maculis nigro marginatis, claviformi elongata, orbiculari alba subrotunda, reniformi testacea, linea transversa exterior angulosa cinerea; posticæ cinereæ.

Agrotis fennica, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1837, 1; *Faun. Volg-Ural.* 193. *Dup. Hist. Nat. Lép. Fr. Suppl.* iv. 533, pl. 90. *Herr.-Schæff. Schmett. Eur.* ii. pl. 30, f. 146, 147. *Guén. Noct.* i. 270, 434.

Opigena fennica, *Steph. Cat. Brit. Lep.* 70.

a, b. St. Petersburg. Presented by J. Gutch, Esq.

c. Trenton Falls, New York. Presented by E. Doubleday, Esq.

d, e. ———? From Mr. Milne's collection.

f, g. Nova Scotia. From Lieut. Redman's collection.

Group 2.

15. AGROTIS SAUCIA.

Fusco-cervina; *alæ anticæ lituris basalibus et costalibus punctisque marginalibus nigris, maculis orbiculari et reniformi magnis nigro marginatis, hac extus excavata, illa subrotunda*; *posticæ cinerascens, venis margineque fuscis.*

—————, *Engr. Pap. d' Eur.* 453, *a, b.*

Noctua saucia, *Hübner. Samml. Eur. Schmett.* 378.

Peridroma saucia, *Hübner. Verz. Schmett.* 227, 2272.

Agrotis saucia, *Treit. Schmett. Eur.* i. 149. *God. Hist. Nat. Lép. Fr.* ii. 260, pl. 69. *Boisd. Ind. Méth.* 108, 821. *Guén. Aun. Soc. Ent. Fr.* vi. 240; *Noct.* i. 271, 435.

Noctua æqua, *Geyer, Samml. Eur. Schmett.* f. 812.

Agrotis æqua, *Steph. Ill. Brit. Haust.* ii. 115.

a—c. England. From Mr. Stephens' collection.

d, e. England.

f—j. Europe. From M. Becker's collection.

k. Madeira. Presented by Mrs. Hope.

l. Teneriffe.

16. AGROTIS AGRICOLA.

Cinerea; *thorax antice nigro fasciatus*; *abdomen testaceum*; *alæ anticæ lineis transversis undulatis duplicatis nigricantibus, claviformi nonnunquam subobsoleta, orbiculari et reniformi nigro marginatis, illa obliqua subelliptica*; *posticæ cinerascens, margine fuscescente, ciliis albis.*

Agrotis agricola, *Boisd. Ind. Méth.* 108, 820. *Geyer, Samml. Eur. Schmett.* 853. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 186, pl. 17, f. 3, *a.* *Herr.-Schæff. Schmett. Eur.* ii. pl. 80, f. 412. *Guén. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 271, 436.

Swiss Alps. South France. Pyrenees. Spain. Cayenne.

a. Europe. From M. Becker's collection.

Group 3.

- A. *Alæ anticæ pallidæ.* - - - - - Trux, *Hübner*
 B. *Alæ anticæ obscuræ.*
 A. *Alæ posticæ maris pallidæ.*
 a. *Alæ anticæ striga conspicua nigro-fusca.*
 exclamationis, *Linn.*
 B. *Alæ anticæ striga nulla conspicua.*
 a. *Alæ anticæ cervinæ aut fuscae.*
 i. *Alæ anticæ latiores.* - - - segetum, *Wien. Verz.*
 ii. *Alæ anticæ angustiores.* - - - sicania, *Boisd.*
 b. *Alæ anticæ glauco-nigricantes.* - lunigera, *Steph.*
 B. *Alæ posticæ maris obscuræ.*
 a. *Alæ anticæ macula subapicali.* - corticea, *Wien. Verz.*
 b. *Alæ anticæ macula nulla subapicali.* - Cos, *Hübner.*

17. AGROTIS SEGETUM.

Cervina; thorax fascia antica nigra; abdomen testaceum; alæ anticæ testaceæ aut cervinæ aut fuscae, obscuriore conspersæ, maculis nigro marginatis, claviformi elongata, orbiculari ovata aut elliptica, reniformi magna; posticæ maris albæ, scem. subcinereæ.

———, *Engr. Pap. d'Eur.* 448, a.

Phalæna-Noctua Segetis, *Gmel. ed. Syst. Nat.* i. 5, 2539, 1018.

Noctua segetum, *Wien. Verz.* 81, 12, pl. 1, f. 3, a, b. *God. Hist. Nat. Léop. Fr.* ii. 252, pl. 68.

Noctua segetis, *Fabr. Sp. Ins.* ii. 223, 78; *Mant. Ins.* ii. 152, 128; *Ent. Syst.* iii. 2, 61, 171. *Hübner. Eur. Schmett. Noct.* f. 146.

Noctua fuscata, *Esp. Schmett.* iii. pl. 64, f. 4. *Bork. Eur. Schmett.* iv. 563, 231.

Noctua caliginosa, *Esp. Schmett.* iii. pl. 64, f. 3.

Bombyx catenatus, *Haw. Lep. Brit.* 54.

Bombyx pectinatus, *Haw. Lep. Brit.* 55.

Bombyx spinulus, *Haw. Lep. Brit.* 57.

Agrotis segetum, *Trcit. Schmett.* i. 155. *Steph. Ill. Brit. Ent. Haust.* ii. 115. *Boisd. Ind. Méth.* 109, 823. *Guén. Noct.* i. 274, 442.

Georyx segetum, *Hübner. Verz. Schmett.* 227, 2280.

Noctua (Agrotis) segetum, *Meig. Syst. Besch.* iii. 88, 11, pl. 94, f. 6.

- a—c.* England. Presented by H. Doubleday, Esq.
d—aaa. England. From Mr. Stephens' collection.
bbb—eee. England.
fff—hhh. Europe. From M. Becker's collection.
iii. Gibraltar. From Mr. Milne's collection.
jjj, kkk. France.
lll. ———?

18. AGROTIS SICANIA.

A. Cos et A. segetum affinis; alæ anticæ angustiores, cinereo-fuscæ, strigis transversis dentatis obscurioribus, maculis ordinariis albido-cinereis, rotunda dilutiore oblonga longitudinaliter posita; posticæ albide.

Agrotis sicula, *Boisd. Ind. Méth.* 109, 824. *Dup. Cat. Méth. Lép. d'Eur. Guén. Ann. Soc. Ent. Fr.* vi. 240, 2.

Agrotis sicania, *Guén. Noct.* i. 275, 443.

Sicily.

19. AGROTIS COS.

Cervino-fusca; alæ anticæ fasciis undulatis obscurioribus; posticæ pallidiores, macula discali margineque lato fuscis.

Noctua Cos, *Hübner. Samml. Eur. Schmett. Noct.* f. 720.

Agrotis Cos, *Boisd. Icon. Lép. d'Eur.* pl. 79, f. 2; *Ind. Méth.* 109, 825. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 181, pl. 17, f. 2. *Guén. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 278, 450.

Noctua Livia? *Frey. Neu. Beit. Schmett.* pl. 95.

Noctua denticulosa?? *Esp. Schmett.* pl. 183, f. 3.

Var. Agrotis tephra, *Boisd.*

20. AGROTIS TRUX.

Cinereo-testacea; abdomen testaceum; alæ anticæ ferrugineo subconspersæ, macula reniformi ferruginea punctis rufis marginata, linea transversa exteriori guttulari rufa, lituris aliis obsoletis; posticæ albæ.

Noctua Trux, *Hübner. Samml. Eur. Schmett. Noct.* 723, 725, 770. *Freper, Beitr.* pl. 72.

Agrotis Trux, *Treit. Schmett. Eur. Suppl.* x. 22. *Boisd. Icon. Lép. d'Eur.* pl. 79, f. 4; *Ind. Méth.* 109, 826. *Guén. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 279, 451.

Noctua (Agrotis) Trux, *Meig. Syst. Besch.* iii. 88, 12, pl. 99, f. 6, 7.

a—c. Europe. From M. Becker's collection.

21. AGROTIS LUNIGERA.

Glauco-nigricans; antennæ maris ciliatæ; abdomen cinereum, basi albidum; alæ anticæ claviformi elongata atra, orbiculari et reniformi atro marginatis, illa elliptica obliqua flava; posticæ maris albidæ, fœm. pallide cinereæ, margine obscuriore.

Agrotis lunigera, *Steph. Ill. Brit. Ent. Haust.* ii. 113, pl. 20, f. 2.
Guén. Noct. i. 280, 452.

a, b. Isle of Wight. From Mr. Stevens' collection.

22. AGROTIS EXCLAMATIONIS.

Cervina; thorax antice nigro fasciatus; alæ anticæ lineis transversis undulatis indistinctis obscurioribus, orbiculari et reniformi nigro-fusco marginatis, orbiculari subelliptico, reniformi fusco, striga postica lanceolata nigro-fusca. Mas.—Abdomen albido-testaceum; alæ posticæ albæ. Fœm.—Abdomen cervinum; alæ posticæ cinereo-fuscæ, ciliis albis:

—————, *Engr. Pap. d'Eur.* 442, a—c. *Deg. Ins.* ii. 406, pl. 6. *Geoff. Ins. Par.* 101. *Schæff. Icon.* ii. pl. 112.

Phalæna-Noctua exclamationis, *Linn. Faun. Suec.* 1170. *Clerck, Icon.* pl. 1, f. 4. *Gmel. ed. Syst. Nat.* i. 5, 2541, 155.

Noctua exclamationis, *Wien. Verz.* 84, 2. *Fabr. Sp. Ins.* ii. 225, 86; *Mant. Ins.* ii. 157, 153; *Ent. Syst.* iii. 2, 70, 198, pl. 64. *Bork. Eur. Schmett.* iv. 546, 221. *Hübner. Samml. Eur. Schmett. Noct.* pl. 311, f. 149. *Haw. Lep. Brit.* 169. *God. Hist. Nat. Lép. Fr.* v. pl. 67, f. 3, 4.

Agrotis exclamationis, *Treit. Schmett* v. 1, 160, 17. *Steph. Ill. Brit. Ent. Haust.* ii. 126. *Boisd. Ind. Méth.* 109, 827. *Guén. Noct.* i. 280, 453.

Agronoma exclamationis, *Hübner. Verz. Schmett.* 227, 2279.

Noctua (Agrotis) exclamationis, *Meig. Handb.* 154, 18; *Syst. Besch.* iii. 90, 14, pl. 93, f. 9.

a, b. England. Presented by H. Doubleday, Esq.

c—cc. England. From Mr. Stephens' collection.

dd. England. From Mr. Foxcroft's collection.

ee—kk. England.

ll, mm. Europe. From M. Becker's collection.

nn, oo. Europe. From Mr. Milne's collection.

23. AGROTIS CORTICEA.

Cervino-fusca; thorax lineis transversis anticis biarcuatis obscurioribus, postice albidus; abdomen subtestaceum; alæ anticæ punctis paucis nigricantibus, macula costali subapicali, lineis duabus transversis undulatis annulisque tribus intermediis discalibus fuscis, annuli exterioris disco cinereo; posticæ cinerascens, lunula discali margineque obscurioribus.

- , *Engr. Pap. d' Eur.* 447, a, b.
Noctua corticea, *Wien. Verz.* 81, 13. *Hüb. Samml. Eur. Schmett.*
Noct. pl. 31, f. 145. *God. Hist. Nat. Léop. Fr.* v. 250, pl. 68, f. 3, 4
Agrotis corticea, *Treit. Schmett. Eur.* v. 1, 158, 16. *Steph. Ill. Brit. Ent. Haust.* ii. 114. *Boisd. Ind. Méth.* 109, 829. *Guén. Ann. Soc. Ent. Fr.* 240; *Noct.* i. 281, 455.
Georyx corticea, *Hüb. Verz. Schmett.* 227, 2281.
Noctua exclamationis, *Esp. Schmett.* iii. pl. 64, f. 1, 2.
Noctua sordida, *Hüb. Schmett. Noct.* pl. 32, f. 154.
Noctua (Agrotis) corticea, *Meig. Syst. Besch.* iii. 89, 13, pl. 93, f. 10.

a—r. England. From Mr. Stephens' collection.

s, t. England. From Mr. Carter's collection.

v, u. England.

w. Europe. From Mr. Milne's collection.

Group 4.

- A. *Alæ posticæ maris albæ.* .
 A. *Alæ anticæ cinereæ.*
 A. *Orbicularis et reniformis fuscæ.* - desertorum, *Boisd.*
 B. *Orbicularis et reniformis nigræ.* - sabuletorum, *Boisd.*
 B. *Alæ anticæ cinereo-rufæ.* - - - Ripæ, *Hüb.*
 B. *Alæ posticæ maris albæ, margine obscuro.*
 A. *Alæ posticæ linea discali.* - - - hilaris, *Frey.*
 B. *Alæ posticæ linea nulla discali.*
 A. *Orbicularis pyriformis.* - - - cursoria, *Naturf.*
 B. *Orbicularis rotunda.* - - - deserticola, *Eversm.*
 C. *Alæ posticæ maris cinereæ.*
 A. *Alæ anticæ cinereo-fuscæ.* - - cinerea, *Wien. Verz.*
 B. *Alæ anticæ cinereæ.* - - - *Simplonia*, *Geyer.*

24. AGROTIS CINEREA.

Cinerea ; thorax fascia antica obscure fusca ; alæ anticæ obscure cinereo-fusca, lineis duabus transversis angulosis fasciaque intermedia nigricantibus.

Noctua cinerea, *Wien. Verz.* 80, 3. *Bork. Eur. Schmett.* iv. 547, 222. *Hüb. Samml. Eur. Schmett. Noct.* pl. 33, f. 155, 156. *God. Hist. Nat. Lép. Fr. Suppl.* ii. 274, pl. 71, f. 5, 6. *Freyer, Ent. Zeit. Stett.* ii. 92.

Noctua obscura, *Hüb. Eur. Schmett. Noct.* pl. 104, f. 490.

Agrotis cinerea, *Treit. Schmett. Eur.* v. 9, 178, 25. *Curt. Brit. Ent.* pl. 165. *Steph. Ill. Brit. Ent. Haust.* ii. 127. *Guén. Ann. Soc. Ent. Fr.* vi. 240 ; *Noct.* i. 282, 457. *Boisd. Ind. Méth.* 109, 853. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 178, pl. 17.

Scotia cinerea, *Hüb. Verz. Schmett.* 226, 2269.

Noctua (Agrotis) cinerea, *Meig. Syst. Besch.* iii. 92, 19, pl. 99, f. 4.

a, b. England. From Mr. Stephens' collection.

c, d England.

25. AGROTIS SIMPLONIA.

Cano-cinerea ; alæ anticæ fasciis quatuor angustis undulatis sub-obsolete fusciscentibus ; posticæ basi pallidiores.

Noctua Simplonia, *Geyer, Samml. Eur. Schmett.* f. 798, 799. *Frey. Neu. Beit. Schmett.* ii. pl. 136.

Agrotis Simplonia, *Treit. Schmett. Eur. Suppl.* x. 27. *Boisd. Icon. Lép. d'Eur.* pl. 82, f. 1, 3 ; *Ind. Méth.* 109, 834. *Guén. Ann. Soc. Ent. Fr.* vi. 240 ; *Noct.* i. 282, 458. *Dup. Hist. Nat. Lép. Fr. Suppl.* 209, pl. 19. *Herr.-Schæff. Schmett. Eur.* ii. pl. 93, f. 478, 479.

a—c. Europe. From M. Becker's collection.

26. AGROTIS SABULETORUM.

Statura A. Tritici ; alæ anticæ cinereæ, striga subterminali denticulata, maculis ordinariis cavis punctulisque marginalibus nigris ; posticæ albæ.

Agrotis sabuletorum, *Boisd. Ind. Méth.* 109, 835. *Herr.-Schæff. Schmett. Eur.* ii. pl. 4, f. 19. *Guén. Noct.* i. 283, 461.

South Russia.

27. AGROTIS DESERTORUM.

A. ripariæ subaffinis ; *alæ anticæ angustæ, cinereæ, strigis tribus punctisque marginalibus nigris, maculis ordinariis fuscis, rotunda longitudinali minuta* ; *posticæ niveæ* ; *quatuor subtus albæ, puncto discali nigro.*

Agrotis desertorum, *Boisd. Ind. Méth.* 111, 849. *Guén. Ann. Soc. Ent. Fr.* vi. 240 ; *Noct.* i. 284, 462.

South Russia.

28. AGROTIS RIPÆ.

Cinereo-cervina ; *abdomen pallidum* ; *alæ anticæ claviformi nigra, orbiculari et reniformi nigro marginatis, macula exteriore discali flava, lineis duabus transversis exterioribus e guttis nigris* ; *posticæ albidæ, linea guttulari discali nigricante.*

Noctua Ripæ, *Hübner. Samml. Eur. Schmett. Noct.* f. 702, 703. *Frey. Beitr. Gesch. Eur. Schm.* pl. 116, f. 4.

Agrotis Ripæ, *Treit. Schmett. Eur.* i. 174. *Boisd. Icon. Lép. d'Eur.* pl. 75, f. 6 ; *Ind. Méth.* 111, 848. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 220, pl. 20? *Guén. Ann. Soc. Ent. Fr.* vi. 241 ; *Noct.* i. 284, 463.

Var. Alæ anticæ cinereo-rufæ, lineis tribus transversis, exteriore plus minusve angulata, maculis ordinariis rufo-fuscis, costa nunc alba nunc cinerea, maris latiore, venis interdum albidis, margine externo serie punctorum nigra ; *alæ posticæ maris albæ, fœminæ fuscescentes.*

Agrotis Desillii, *Pierret, Ann. Soc. Ent. Fr.* viii. 95, pl. 8, f. 2. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 476, pl. 41,* f. 3.

Agrotis nebulosa, *Steph. Ill. Brit. Haust.* ii. 127, pl. 22, f. 1.

Normandy.

a—h. England. From Mr. Stephens' collection.

i, j. England.

29. AGROTIS CURSORIA.

Cervina ; *thorax linea antica transversa fusca* ; *abdomen testaceum* ; *alæ anticæ claviformi elongata, orbiculari et reniformi albidis ex parte fusco marginatis, illa pyriformi, lineis transversis undulatis fuscescentibus, fascia exteriore albidâ* ; *posticæ albidæ, margine obscuriore.*

Noctua cursoria, *Naturf.* ix. 140. *View. Schm.* 94, pl. 3, f. 6.
Bork. Eur. Schmett. 230. *Hüb. Samml. Eur. Schmett.*
 540. *Frey. Neu. Beit. Schmett.* ii. pl. 99.

Noctua mixta, *Fabr. Ent. Syst.* iii. 2, 118, 356.

Agrotis cursoria, *Treit. Schmett. Eur.* i. 176; *Suppl.* x. 25. *Boisd.*
Icon. Léop. d'Eur. pl. 79, f. 3; *Ind. Méth.* 110, 847. *Guén.*
Ann. Soc. Ent. Fr. vi. 240; *Noct.* i. 284, 464.

Georyx cursoria, *Hüb. Verz. Schmett.* 227, 2283.

a—s. England. From Mr. Stephens' collection.

t. England. From Mr. Carter's collection.

v. Scotland. From Mr. Foxcroft's collection.

u, w. England.

x, y. Europe. From M. Becker's collection.

30. AGROTIS DESERTICOLA.

Cervina; *thorax albido varius*; *abdomen albidum*; *alæ anticæ venis lineisque transversis undulatis albidis, macula claviformi fusca sat longa, orbiculari et reniformi albo marginatis, illa rotunda, fascia exteriorē fusca*; *posticæ albæ, margine fuscescente.*

Agrotis deserticola, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1842, 3.
Faun. Volg-Ural. 201. *Herr.-Schæff. Schmett. Eur.* ii. pl. 96.
 f. 492. *Guén. Noct.* i. 284, 465.

Sarepta.

31. AGROTIS HILARIS.

Cinerea; *alæ anticæ lineis transversis duplicatis distinctis nigricantibus, maculis nigricante marginatis, claviformi elongata, orbiculari parva rotunda, reniformi magna.*

Agrotis hilaris, *Frey. Neu. Beit. Schmett.* iii. 89, pl. 255. *Guén.*
Noct. i. 285, 466.

Constantinople.

Group 5.

A. *Alæ anticæ venis pallidis.* - - *aquilina, Wien. Verz.*

B. *Alæ anticæ venis non pallidis.*

A. *Alæ anticæ apud costam non pallidiores.*

A. *Orbicularis et reniformis non obscuriores.*

a. *Alæ posticæ ciliis obscuris.*

i. *Alæ posticæ litura nulla discali.*

* Alæ anticæ guttis nullis albidis.

† Alæ posticæ non albidæ. - nigricans, *Linn.*

†† Alæ posticæ albidæ. - - molothina, *Esp.*

** Alæ anticæ guttis costalibus albidis.

siliginis, *Friv.*

ii. Alæ posticæ litura discali. - adumbrata, *Eversm.*

b. Alæ posticæ ciliis albis. - - - Tritici, *Linn.*

B. Orbicularis et reniformis obscuriores. - recussa, *Hübner.*

B. Alæ anticæ apud costam pallidiores.

A. Reniformis sat lata. - - - obelisca, *Wien. Verz.*

B. Reniformis angusta. - - - agathina, *Dup*

32. AGROTIS NIGRICANS.

Piceo-fusca, punctis pallidis; thorax fascia biarcuata nigra; abdomen subtestaceum; alæ anticæ ocello subquadrato discali fasciisque tribus angulosis fuscis nigro testaceoque marginatis; posticæ cinerascens, margine obscuriore.

Var. *Ferrugineo-fusca; alæ anticæ annulis duobus nigris fasciis incompletis; posticæ albæ, cinereo marginatæ.*

———, *Engr. Pap. d'Eur.* 391.

Phalæna-Noctua nigricans, *Linn. Faun. Suec.* 1220. *Gmel. ed. Syst. Nat.* i. 5, 2574, 178.

Phalæna (Noctua) fumosa, *Gmel. ed. Syst. Nat.* i. 5, 2574, 1167.

Noctua rubricans, *Esp. Schmett. iv. pl. 130, f. 2, 3. Bork. Eur. Schmett. iv. pl. 130, f. 2, 3.*

Noctua fuliginea, *Hübner. Schmett. Eur. Noct. pl. 131, f. 602. God. Hist. Nat. Léop. Fr. v. pl. 78, f. 5, 6.*

Noctua carbonea, *Hübner. Schmett. Eur. Noct. f. 700, 701.*

Noctua ursina, *God. Hist. Nat. Léop. Fr. v. pl. 71, f. 3.*

Noctua ruris, *Haw. Lep. Brit.* 175.

Noctua vilis? *Hübner. Schmett. Eur. Noct. f. 511.*

Noctua nigricans, *Wien. Verz.* 81, 19. *Fabr. Sp. Ins.* ii. 238, 138; *Mant. Ins.* ii. 178, 279; *Ent. Syst.* iii. 2, 115, 346. *Esp. Schmett. iv. pl. 107, f. 5. Bork. Eur. Schmett. iv. 58, 241. Haw. Lep. Brit.* 173.

Noctua fumosa, *Wien. Verz.* 81, 18. *Fabr. Mant. Ins.* ii. 179, 281; *Ent. Syst.* iii. 2, 115, 348. *Bork. Eur. Schmett. iv. 58. 240. God. Hist. Nat. Léop. Fr. v. pl. 70, f. 3, 4. Hübner. Schmett. Eur. Noct. pl. 32, f. 153.*

Agrotis fumosa, *Treit. Schmett. v. 1, 140, 8. Boisd. Ind. Méth.* 110, 846. *Guén. Noct. i. 286, 468. Steph. Ill. Brit. Ent. Haust.* ii. 125.

Agrotis ruris, Steph. *Ill. Brit. Ent. Haust.* ii. 125.

Brotis fumosa, Hübn. *Verz. Schmett.* 226, 2270.

Noctua (*Agrotis*) *nigricans*, Meig. *Syst. Besch.* iii. 85, 7, pl. 95, f. 7.

a—cc. England. From Mr. Stephens' collection.

dd—kk. England.

ll, mm. Europe. From M. Becker's collection.

nn. ——— ?

Bentley has described twelve varieties of this species in 'The Entomologist,' p. 254.

33. AGROTIS ADUMBRATA.

Picea ; abdomen cinereum ; *alæ anticæ lineis undulatis transversis testaceis, macularum marginibus albidis, claviformi brevi, orbiculari subrotunda, linea exterior e punctis albidis, guttis marginalibus nigris ; posticæ cinereæ, litura discali margine latissimo obscurioribus.*

Agrotis adumbrata, Eversm. *Bull. Soc. Imp. Nat. Mosc.* 1842, 3 ; *Faun. Volg-Ural.* 191. Herr.-Schæff. *Schmett. Eur.* ii. pl. 25, f. 121. Guén. *Noct.* i. 287, 469.

South Russia.

34. AGROTIS SILIGINIS.

Cinereo-fusca ; abdomen cinerascens ; *alæ anticæ guttis costalibus albidis, lineis transversis undulatis indistinctis, lnnulis marginalibus nigris, maculis discalibus nigro ex parte marginatis, claviformi subobsoleta, orbiculari subovata magna aut parva, reniformi extus excavata, linea transversa submarginali albida nonnunquam subobsoleta ; posticæ maris albæ, fæm. cinereæ.*

Agrotis siliginis, Friw. *MSS.* Guén. *Ann. Soc. Ent. Fr.* 240 ; *Noct.* i. 287, 470.

Agrotis seliginis, Dup. *Hist. Nat. Léop. Fr.* iii. 211, pl. 19, f. 6.

Agrotis segnilis, Boisd. *Ind. Méth.* 110, 837.

Noctua eruta ? Hübn. *Samml. Eur. Schmett. Noct.* f. 623.

Epipsilia eruta ? Hübn. *Verz. Schmett.* 210, 2101.

Hungary. Balkan Mountains.

a. Europe. From Mr. Milne's collection.

b, c. Europe. From M. Becker's collection.

35. AGROTIS TRITICI.

Fusco-cinerea ; abdomen testaceum ; alæ anticæ lunulis marginalibus nigris, orbiculari et reniformi albido nigroque marginatis, illa subelliptica, macula postica fusiformi nigro marginata, fascia exteriori albida indistincta ; posticæ cinerascens, margine fuscescente, ciliis albis.

———, Frisch, *Ins.* 10, pl. 19. *Bjuk. Act. Stockh.* 1778, 4, 13.

Phalæna-Noctua Tritici, *Linn. Faun. Suec.* 1211. *Gmel. ed. Syst. Nat.* i. 5, 2574, 179.

Noctua Tritici, *Bork. Eur. Schmett.* iv. 51.

Agrotis Tritici, *Treit. Schmett. Eur.* vi. 137, 7 ? *Boisd. Icon. Lép. d'Eur.* pl. 77, f. 2, 3 ; *Ind. Méth.* 110, 836. *Steph. Ill. Brit. Haust.* ii. 121. *Guén. Noct.* i. 288, 471.

Noctua aquilina, *God. Hist. Nat. Lép. Fr.* ii. pl. 64, f. 6, 7.

Noctua eruta ? *Hüb. Samml. Eur. Schmett. Noct.* pl. 136, f. 623.

Noctua pratincola, *Bork. Eur. Schmett. Noct.* iv. 553, 225. *Hüb. Schmett. Eur. Noct.* pl. 123, f. 567.

Noctua fictilis, *Hüb. Schmett. Eur. Noct.* pl. 101, f. 479.

Noctua recussa ? *Hüb. Schmett. Eur. Noct.* pl. 138, f. 630.

Metaxya Tritici, *Hüb. Verz. Schmett.* 223, 2237.

Noctua (Agrotis) Tritici, *Meig. Syst. Besch.* iii. 84, 5, pl. 94, f. 5.

a—bb. England. From Mr. Stephens's collection.

cc. Scotland. From Mr. Foxcroft's collection.

dd—ff. England.

gg—jj. Europe. From M. Becker's collection.

kk. Orilla, West Canada. From Mr. Bush's collection.

ll—qq. Nova Scotia. From Lieut. Redman's collection.

rr—ww. Trenton Falls, New York. Presented by E. Doubleday, Esq.

The American specimens differ much from each other, but belong to Guénée's fourth variety of the species. Bentley has described twelve varieties of this species in 'The Entomologist,' p. 256.

36. AGROTIS AQUILINA.

Cervina ; thorax linea transversa antica plagisque duabus lateralibus nigro-fuscis ; abdomen testaceum ; alæ anticæ apud costam albido conspersæ, vena mediana albida, lunulis marginalibus nigris, disco ex parte strigisque exterioribus lanceolatis fuscis, maculis nigro albidoque marginatis, claviformi elongata, orbiculari et reniformi variis irregularibus, fascia exteriori albida e strigis lanceolatis ; posticæ albidæ aut subcinereæ, margine fuscescente, ciliis albis.

- Noctua aquilina*, *Wien. Verz.* 80, 6. *Bork. Eur. Schmett.* 156?
Hüb. Samml. Eur. Schmett. Noct. pl. 29, f. 135; pl. 115, f. 535. *God. Hist. Nat. Lép. Fr.* v. 218.
- Agrotis aquilina*, *Treit. Schmett. Eur.* v. 1, 134, 6. *Boisd. Ind. Méth.* 110, 841. *Guén. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 289, 472.
- Noctua domestica*? *Fabr. Ent. Syst.* iii. 2, 23, 48.
- Noctua nigrofusca*, *Esp. Schmett.* iv. pl. 127, f. 6.
- Var. Agrotis vitta*, *Treit. Schmett.* v. 1, 132, 5. *Steph. Ill. Brit. Ent. Haust.* ii. 120.
- Noctua vitta*, *Esp. Schmett.* pl. 143, f. 6. *Bork. Eur. Schmett.* iv. 191? *Hüb. Eur. Schmett. Noct.* f. 533, 534. *God. Hist. Nat. Lép. Fr.* v. pl. 64, f. 4, 5.
- Noctua (Agrotis) vitta*, *Meig. Syst. Besch.* iii. 83, 3, pl. 92, f. 12.
- Metaxya aquilina*, *Hüb. Verz. Schmett.* 223, 2236.
- Noctua (Agrotis) aquilina*, *Meig. Syst. Besch.* iii. 84, 4, pl. 93, f. 7.
- Noctua Triticæ*, *God. Hist. Nat. Lép. Fr.* v. pl. 65, f. 4, 5.
- a*—*s.* England. From Mr. Stephens' collection.
- t.* Scotland. From Mr. Foxcroft's collection.
- v*—*y.* Europe. From M. Becker's collection.
- z*—*aa.* ———?

37. AGROTIS RECUSSA.

Mas. Alæ anticæ cinereo-fusæ, maculis duabus costaque cinereis, strigis transversis fuscis posticis albicantibus ad marginem fuscis; antennæ ciliatæ. Fœm.—Alæ anticæ fusæ maculis duabus costaque cinereo-fuscis; posticæ albido-fusæ ad marginem fusæ; antennæ filiformes.

- Agrotis telifera*, *Donzel, Ann. Soc. Ent. Fr.* vi. 471, 1, pl. 18, f. 1.
- Noctua telifera*, *Geyer, Samml. Eur. Schmett.* 878.
- Noctua recussa*, *Hüb. Samml. Eur. Schmett.* 630.
- Agrotis recussa*, *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 458, pl. 40, f. 4. *Boisd. Ind. Méth.* 110, 839. *Herr.-Schæff. Schmett. Eur.* 21. *Guén. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 291, 474.
- Metaxya recussa*, *Hüb. Verz. Schmett.* 223, 2240.
- Basses-Alpes. Pyrenees. Valais.*
- a, b.* Europe. From M. Becker's collection.

38. AGROTIS OBELISCA.

Fusca ; abdomen cinereum ; alæ anticæ maculis duabus subquadratis discalibus lineisque duabus transversis exterioribus punctatis nigris, maculis duabus subquadratis discalibus testaceis ; posticæ albidæ, cinereo marginatæ.

- , *Engr. Pap. d'Eur.* 445, a, b.
Noctua obelisca, *Wien. Verz.* 80, 5. *Hübner. Samml. Eur. Schmett.* 123. *Haw. Lep. Brit.* 177. *God. Hist. Nat. Lép. Fr.* v. 214, pl. 64, f. 3.
Agrotis obelisca, *Treit. Schmett. Eur.* v. 1, 143, 9. *Steph. Ill. Brit. Ent. Haust.* ii. 124? *Boisd. Ind. Méth.** 110, 840. *Guén. Ann. Soc. Ent. Fr.* vi. 240 ; *Noct.* i. 291, 475.
Noctua pratincola, *Hübner. Samml. Eur. Schmett.* 567. *Bork. Eur. Schmett.* 225.
Metaxya obelisca, *Hübner. Verz. Schmett.* 223, 2235.
Bombyx molothina, *Esp. Schmett.* iii. pl. 85, f. 1.
Noctua (Agrotis) obelisca, *Meig. Syst. Besch.* iii. 86, 8, pl. 92, f. 10.
a—g. England. From Mr. Stephens' collection.
h. England.
i—m. Europe. From M. Becker's collection.
n, o. ———?
p—v. Nova Scotia. From Lieut. Redman's collection.
u. ———?

Var. Mas. *Alæ anticæ ochraceo-cinereæ, maculis duabus costaque albicantibus ; posticæ albæ ; antennæ pectinatæ, apice filiformes.* Fœm.—*Alæ anticæ cinereo-fuscæ, posticæ ad marginem late infuscatæ ; antennæ filiformes.*

Agrotis Villiersii, *Guén. Ann. Soc. Ent. Fr.* vi. 173, pl. 8, f. 1, 2. *Geyer, Samml. Eur. Schmett.* 869, 870.

Agrotis obelisca, var. C. Villiersii, *Guén. Noct.* i. 292. *Boisd. Ind. Méth.* 110.

Central France. Hungary. Several parts of Germany.

Var. Mas. *Alæ anticæ obscure fuscæ, vitta costali alba lata, maculis duabus ordinariis albidis ; posticæ albæ, apice nudæ.* Fœm.—*Alæ anticæ rufo-cinereæ, vitta costali albida lata, maculis duabus ordinariis albidis.*

Agrotis hastifera, *Donzel, Ann. Soc. Ent. Fr. 2me Sér.* v. 525, 1, pl. 8, No. 1, f. 1, 2.

Agrotis obelisca, var. A. hastifera, *Guen. Noct.* i. 291.

Digne.

Var.? *Alæ anticæ obscure fuscae margine apicali maculisque subquatuor nigris, ultima costali; posticæ albidæ, margine fuscescente.*

Agrotis tetrastigma, Zett. *Ins. Lapp.* 935, 3.

Norwegian Lapland.

39. AGROTIS MOLOTHINA.

Mas. *Rufescente-cinerea; antennæ pectinatæ; abdomen pallide cinereum; alæ anticæ basi, maculis fasciisque undulatis cinereis, maculis duabus (una costali, altera inter orbicularem et reniformem) nigris, claviformi elongata, orbiculari magna subrotunda; posticæ albidæ, margine cinereis.*

———, *Engr. Pap. d'Eur.* vii. 58, f. 444, a.

Noctua molothina, *Esp. Schmett.* pl. 85, f. 1?

Chersotis Ericæ, *Boisd. Ind. Méth.* 104, 771. *Guén. Ann. Soc. Ent. Fr.* vi. 240.

Agrotis velum, *Herr.-Schæff. Schmett. Eur.* ii. pl. 6, f. 30.

Agrotis molothina, *Guén. Noct.* i. 294, 480.

Central France.

40. AGROTIS AGATHINA.

Rufescens; caput et thorax anticus flava; abdomen fusco-cinereum; alæ anticæ vitta antica fasciisque undulatis flavis, his cinereo marginatis, macula inter orbicularem et reniformem nigrum, hanc flavo-marginatum, illam flavam; posticæ pallide fuscescentes, lunula lineaque discalibus cinereis.

Agrotis agathina, *Dup. Hist. Nat. Lép. Fr.* iv. 359, pl. 122, f. 2.

Herr.-Schæff. Schmett. Eur. ii. pl. 1, f. 2. *Guén. Ann. Soc.*

Ent. Fr. vi. 240; *Noct.* i. 294, 479.

Chersotis agathina, *Boisd. Ind. Méth.* 104, 770.

Agrotis Lidia, *Boisd. Ind. Méth.* ed. 1; *Icon. Lép. d'Eur.* pl. 77, f. 1.

Lytaea albimacula, *Steph. Ill. Brit. Haust. Suppl.* ii. 137, pl. 19, f. 3.

Var. *Lytaea leucographa*, *Steph. Ill. Brit. Ent. Haust.* ii. 199.

α—ε. England. From Mr. Stephens' collection.

Group 6.

41. AGROTIS SIGNIFERA.

Cervino-cinerea; thorax nigro fasciatus; abdomen albido-testaceum; alæ anticæ striga basali lunulisque marginalibus nigris, lineis transversis undulatis indistinctis, lituris costalibus strigaeque discali fuscis, maculis nigro marginatis, claviformi lanceolata, orbiculari subovata aut fusiformi, reniformi angusta sublunata; posticæ maris albæ, margine fusciscente, fœm. cinereæ, basi pallidiores, ciliis albis.

———, *Engr. Pap. d'Eur.* 381, C.

Noctua signifera, *Wien. Verz.* 80, 9. *Fabr. Ent. Syst.* iii. 2, 71, 202. *Bork. Eur. Schmett.* 226. *Hüb. Samml. Eur. Schmett. Noct.* f. 132.

Agrotis signifera, *Treit. Schmett. Eur.* i. 171. *God. Hist. Nat. Lép. Fr.* ii. 230, pl. 66. *Frey. Beit. Ges. Eur. Schmett.* pl. 70; *Neu. Beit. Schmett.* ii. pl. 161. *Boisd. Ind. Méth.* 110, 843. *Guén. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 298, 488.

Ogygia signifera, *Hüb. Verz. Schmett.* 225, 2254.

a—c. Europe. From M. Becker's collection.

42. AGROTIS FORCIPULA.

Cinerea; abdomen canum; alæ anticæ lineolis paucis discalibus et submarginalibus nigris, ocellis duobus ex parte albis nigro marginatis; posticæ cinereæ, ciliis albidis fusco fasciatis.

Noctua forcipula, *Wien. Verz.* 14. *Hüb. Samml. Eur. Schmett. Noct.* f. 128, 547. *God. Hist. Nat. Lép. Fr.* ii. 228, pl. 66. *Frey. Neu. Beit. Schmett.* ii. pl. 160.

Agrotis forcipula, *Treit. Schmett. Eur.* i. 168. *Boisd. Ind. Méth.* 110, 844. *Guén. Ann. Soc. Ent. Fr.* vi. 246; *Noct.* i. 298, 489.

Noctua denticulosa, *Esp. Schmett.* pl. 183, f. 3.

Ogygia forcipula, *Hüb. Verz. Schmett.* 225, 2256.

South and East Europe.

Var? *Alæ anticæ subcinereæ, cæcio indutæ, strigis duabus ordinariis crenatis nigricantibus, striga submarginali obsoleta maculisque ordinariis obsoletis lutescentibus, puncto nigro sub macula rotunda; alæ posticæ nigricantes, ad basin pallidæ.*

Agrotis Forficula, *Eversmann*, *Bull. Soc. Imp. Nat. Mosc.* 1851, xxiv. No. 2, 629, 17.

Georgia in Asia.

43. AGROTIS SAGITTIFERA.

Cana; *tarsi antice nigri, albo fasciati*; *alæ anticæ vitta dislocata discali, lituris costalibus strigisque exterioribus nigris, maculis orbiculari et reniformi albidis indistinctis*; *posticæ albæ, venis apice fuscis*.

Noctua sagittifera, *Hübner. Samml. Eur. Schmett.* 532, 848. *God. Hist. Nat. Lép. Fr.* ii. 232, pl. 66. *Frey. Neu. Beit. Schmett.* ii. pl. 148, f. 2.

Agrotis sagittifera, *Treit. Schmett. Eur.* i. 172. *Boisd. Icon. Lép. d'Eur.* pl. 75, f. 4; *Ind. Méth.* 104, 775. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 154, pl. 15, f. 2. *Guén. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 299, 490.

Lithophane sagittifera, *Hübner. Verz. Schmett.* 242, 2411.

a. Europe. From M. Becker's collection.

North America.

Group 1.

Like the first European group.

A. Thorax canus. - - - - - malefida, *Guén.*

B. Thorax non canus.

A. Thorax pilis albidis. - - - - - patula, *Walk.*

B. Thorax pilis nullis albidis.

A. Thorax testaceus. - - - - - venerabilis, *Walk.*

B. Thorax cervinus. - - - - - insignata, *Walk.*

c. Thorax non testaceus nec cervinus.

a. Alæ posticæ maris cineræ.

i. Alæ anticæ non albo venosæ.

* Alæ anticæ basi nigro non maculatæ.

jaculifera, *Guén.*

** Alæ anticæ lituris basalibus nigris.

hæsitans, *Walk.*

ii. Alæ anticæ venis duabus albis. - divergens, *Walk.*

b. Alæ posticæ maris pallide cervinæ. - incallida, *Walk.*

c. Alæ posticæ maris albæ, margine fusciscente.

spissa, *Guén.*

d. Alæ posticæ maris albæ. - - - annexa, *Treit.*

44. AGROTIS SPISSA.

Fusco-cervina, cinereo varia; thorax fusco fasciatus; abdomen canescens; alæ anticæ lituris costalibus, lineis transversis angulatis et macularum marginibus nigricantibus, claviformi obsoleta, orbiculari magna subelliptica, reniformi latiuscula; posticæ maris albæ, margine fuscescente, fœm. fuscescentes basi albidæ.

Agrotis spissa, Guén. Noct. i. 261, 415.

a, b. United States. Presented by E. Doubleday, Esq.
c—k. Nova Scotia. From Lieut. Redman's collection.

45. AGROTIS JACULIFERA.

Subcervina; thorax fascia antica; abdomen albido-testaceum; alæ anticæ maculis nigro marginatis, claviformi longissima, orbiculari lanceolata albida, reniformi sublunata testacea. Mas.—Alæ anticæ rufescente canæ, disco ex parte margineque exteriori fuscis nigro strigatis; posticæ albidæ, margine fusco. Fœm.—Alæ anticæ rubido-fuscæ, disco ex parte, linea transversa undulata margineque exteriori nigris; posticæ cinereæ, basi albidæ.

Agrotis jaculifera, Guén. Noct. i. 262, 417.

Canada.

a—n. Trenton Falls, New York. Presented by E. Doubleday, Esq.
o—r. New York. From Mr. Milne's collection.

46. AGROTIS DIVERGENS.

Mas. Rufo-fusca; thorax antice fusco fasciatus; abdomen pallide testaceum; alæ anticæ venis duabus albis, disco apud maculas nigricante, orbiculari et reniformi cinereis, illa elliptica oblonga, claviformi lanceolata, linea transversa cinerea guttisque nigricantibus exterioribus; posticæ cinereæ, fuscescente marginatæ.

Male. Reddish brown. Thorax with a dark brown band. Abdomen pale testaceous. Fore wings with two white lines on the veins, united at the base, including a blackish space, which contains the cinereous black-bordered orbicular and reniform spots; orbicular spot elliptical, oblong; reniform with the usual form; clavi-

form lanceolate, slight; an exterior transverse cinereous line, along which there are some blackish dots. Hind wings cinereous, with brownish borders. Length of the body 5 lines; of the wings 12 lines.

a—d. Nova Scotia. From Lieut. Redman's collection.

47. AGROTIS MALEFIDA.

Cana; thoracis latera antica nigro varia; alæ anticæ nigro-cinereæ albido conspersæ et strigatæ, maculis solitis nigro-marginatis; posticæ albæ, opalinæ, semihyalinæ, venis apice infuscatis.

Agrotis malefida, Guén. Noct. i. 267, 429.

a, b. E. Florida. Presented by E. Doubleday, Esq.

48. AGROTIS ANNEXA.

Cervina; abdomen pallide testaceum; alæ anticæ striga costali subapicali, striga basali strigaeque inter maculus reniformem et orbicularem nigricantibus; posticæ albæ, opalinæ, semihyalinæ.

Agrotis annexa, Treit. Schmett. Eur. i. 154; Suppl. x. 22. Steph. Ill. Brit. Haust. ii. 117, pl. 22, f. 2. Boisd. Ind. Méth. ed. 1, 64. Guén. Noct. i. 268, 430.

a. United States. Presented by E. Doubleday, Esq.

b—e. East Florida. Presented by E. Doubleday, Esq.

f, g. St. Domingo. From Mr. Tweedie's collection.

h. St. Domingo. Presented by Dr. Gilbert.

i. Jamaica.

j. Port Natal. From Dr. Krauss' collection.

49. AGROTIS VENERABILIS.

Mas. Testacea; caput et thoracis latera albido pilosa; thorax antice nonnunquam nigro fasciatus; alæ anticæ apud costam fuscæ, maculis nigro marginatis, orbiculari fusiformi, reniformi subelliptico, striga postica duplicata nigra; posticæ cinereæ.

Male. Testaceous. Head and sides of the thorax more or less whitish. Thorax occasionally with blackish bands in front. Fore wings brownish in front; discal spots with black borders;

orbicular spot fusiform; reniform spot subelliptical, hardly contracted in the middle; a double black streak behind the orbicular spot. Hind wings cinereous. Length of the body 6—6½ lines; of the wings 14—15 lines.

a—d. Nova Scotia. From Lieut. Redman's collection.

e. ———?

50. AGROTIS PATULA.

Mas. *Cervina*; *antennæ mediocriter pectinatæ*; *thorax pilis nonnullis albidis*; *abdomen basi pallidum*; *alæ anticæ latiusculæ, lituris nigris*; *claviformi elongata, orbiculari subpyriformi, lineis duabus exterioribus transversis angulosis, lunulisque marginalibus*; *posticæ pallide cinereo-cervinæ*.

Male. Fawn-colour. *Antennæ* moderately pectinated. *Thorax* with some whitish hairs. *Abdomen* paler towards the base. *Fore wings* rather broad, with the usual marks blackish; *claviform* spot elongate; *orbicular* subpyriform; *reniform* as usual; two exterior transverse zigzag lines, and a row of marginal lunules. *Hind wings* pale cinereous fawn-colour. Length of the body 7 lines; of the wings 16 lines.

a. Rocky Mountains. Presented by the late Earl of Derby.

51. AGROTIS HÆSITANS.

Mas. *Obscure cervina*; *palpi fuscii*; *antennæ nigræ, mediocriter pectinatæ*; *abdomen pallidum*; *alæ anticæ lituris basalibus, striga discali, strigis exterioribus, fascia incompleta, macula subquadrata, lunulisque marginalibus nigris, orbiculari et reniformi indistinctis*; *posticæ cinereæ, margine fusciscenti, ciliis albidis*.

Male. Dull fawn-colour. *Palpi* brown. *Antennæ* black, moderately pectinated. *Abdomen* much paler than the thorax. *Fore wings* with black marks at the base, with a slight black streak in the disk, with an incomplete black band, with exterior black streaks, and with black marginal lunules; a black subquadrate spot between the orbicular and reniform spots which are indistinct. *Hind wings* cinereous, brownish towards the border; *ciliæ* whitish. Length of the body 6 lines; of the wings 14 lines.

a. United States. Presented by E. Doubleday, Esq.

52. AGROTIS INCALLIDA.

Fœm. Pallide cervina; caput et thorax anticus fuscescentia; alæ anticæ costam versus et apud marginem exteriorem fuscescentes, maculis discalibus nigro marginatis, claviformi elongata, orbiculari pyriformi, reniformi angusta lunata testacea.

Female. Dull pale fawn-colour. Head and fore part of the thorax brownish. Fore wings brownish on most of the fore half and along the exterior border; discal spots mostly bordered with black; claviform elongate; orbicular pyriform, its broad end towards the reniform, which is narrow, lunate, and mostly pale testaceous. Length of the body 7 lines; of the wings 16 lines.

a. Trenton Falls, New York. Presented by E. Doubleday, Esq.

53. AGROTIS INSIGNATA.

Fœm. Cervina; abdomen cinerascens; alæ anticæ lineis transversis duplicatis undulatis ad costam dilatatis nigricantibus, orbiculari et reniformi nigricantibus testaceo marginatis, hac extus valde excavata, illa subrotunda; posticæ subcinereæ, ciliis albido marginatis.

Female. Fawn-colour. Abdomen more cinereous. Fore wings with distinct transverse double undulating blackish lines, which are somewhat dilated on the costa; orbicular and reniform spots blackish, with pale testaceous borders, the former nearly round, about half the size of the latter, which is much excavated on the outer side. Hind wings cinereous; ciliæ with whitish tips. Length of the body 7 lines; of the wings 16 lines.

a. b. Nova Scotia. From Lieut. Redman's collection.

Group 2.

Like the third European group.

54. AGROTIS INCIVIS.

Mas. Albida; palpi subtus nigro-fusci; thorax fascia antica nigro-fusca; alæ anticæ rufo nigroque subconspersæ, fascia marginali rufescente lineam undulatam guttasque marginales albidas includente, maculis orbiculari et reniformi nigro alboque variis; posticæ albæ, opalinæ, semihyalinæ, margine angusto fuscescente.

Agrotis incivis, Guén. Noct. i. 274, 441.

Agrotis infecta, Ochs. Nachtr. 67, 8.

Noctua præcox, Hübn. Samml. Eur. Schmett. 359. Oliv. Enc. Méth. 330. Dup. Hist. Nat. Léop. Fr. iii. 20, pl. 73, f. 1.

Hapalia infecta, Hübn. Verz. Schmett. 220, 2205.

a—c. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

d. St. Domingo. From Mr. Tweedie's collection.

e, f. ———? From Mr. Milne's collection.

Group 3.

Like the fifth European group.

55. AGROTIS OBELISCOIDES.

Subcervina; thorax fascia antica nigra, postice piceus; abdomen albido-testaceum; alæ anticæ striga discali margineque exteriore late rubidis, costa albida, macula claviformi lanceolata lineisque transversis nigris, orbiculari et reniformi testaceo-albidis cervino pupillatis, hac sublunata, illa elliptica obliqua; posticæ pallide cinerascens, margine fusco.

Agrotis obeliscoides, Guén. Noct. i. 293, 477.

a. United States. Presented by E. Doubleday, Esq.

56. AGROTIS MOLLIS.

Fœm. Cana; thorax ferrugineo fuscoque fasciatus; abdomen cinereum; alæ anticæ ferruginæ, lineis transversis canis nigrisque, exteriore arcuata, submarginali undulata, striga brevi discali atra, orbiculari subovata, reniformi vix excavata.

Noctua mollis, Barnston, MSS.

Female. Hoary. Thorax with ferruginous and brown bands. Abdomen and hind wings cinereous. Fore wings mostly ferruginous; the usual transverse lines hoary and blackish, and very distinct; the exterior one curved, the submarginal one undulating; a short discal deep black streak extending to the reniform spot and interrupted by the orbicular one; the latter is irregularly oval, and not much smaller than the reniform, which is hardly excavated. Length of the body 7 lines; of the wings 14 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

57. AGROTIS PERLENTANS.

Mas. *Fusca; antennæ simplices aut vix ciliatæ; abdomen cinereum; alæ anticæ striga discali interrupta nigricante, orbiculari et reniformi indistinctis pallido marginatis; posticæ cinereæ, macula discali margineque fusciscentibus.*

Male. Brown. Antennæ simple or hardly ciliated. Abdomen cinereous. Fore wings with a blackish streak between the base and the orbicular spot, and between the latter and the reniform spot; spots indistinct, with pale borders. Hind wings cinereous, with a brownish discal spot, and brownish borders. Length of the body 6 lines; of the wings 14 lines.

a. New York. Presented by E. Doubleday, Esq.

58. AGROTIS RADIX.

Ferrugineo-fusca; thorax nigro fasciatus; abdomen cinereum, lateribus ferrugineis; alæ anticæ lineis nonnullis transversis undulatis pallidioribus et obscurioribus, linea submarginali angulosa albida, striga basali lunulisque marginalibus nigris, orbiculari et reniformi obscuriore marginatis, hac maxima, illa subovata; posticæ cinereæ, marginibus obscurioribus.
Mas.—*Antennæ ciliatæ; abdomen valvulis apicalibus magnis luteo pilosis.*

Noctua radix, Barnston, MSS.

Ferruginous-brown. Thorax with a black band. Abdomen cinereous, ferruginous along each side. Fore wings with several transverse undulating paler and darker lines, the submarginal line angulose and whitish; a black basal streak, and black marginal lunules; orbicular and reniform spots with darker borders, the former irregularly oval, about half the size of the latter, which is very large. Hind wings cinereous, with darker borders. *Male.*—Antennæ ciliated. Abdomen with large apical valves, whose hairs are somewhat luteous. Length of the body 6 lines; of the wings 16 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

b. Nova Scotia. From Lieut. Redman's collection.

Group 4.

Like the sixth European group.

59. AGROTIS IMPERITA.

Mas. *Cinerea*; *alæ anticæ strigulis undulosis transversis albidis nigro marginatis, litura discali ciliaque fulvis; posticæ subcinereæ, basi pallidiores.*

Ogygia imperita (*Noctua genuina*, *Graphiphora obsoleta*), *Hübner*. *Samml. Exot. Schmett.* iii. 16, 224, f. 447, 448.

Labrador.

West Indies.

Group 1.

Like the first European group.

60. AGROTIS DECERNENS.

Mas. *Fusca*; *abdomen pallide fuscum, marginibus basique albidis; alæ anticæ cervinæ, strigis lanceolatis fuscis, maculis duabus (una basali, altera subapicali) nigro-fuscis, macula fusca pallidior submarginali, macula inter orbicularem et reniformem nigricante, claviformi lanceolata, orbiculari parva rotunda; posticæ albæ, opalinæ.*

Male. Brown. Abdomen pale brown; hind borders of the segments and base whitish. Fore wings fawn-colour, with lanceolate brown streaks, with a blackish brown spot near the base, and another near the tip of the costa; a paler brown spot in front of the middle of the exterior border, and a blackish spot between the orbicular and the reniform, which, like the others, is bordered with black; claviform lanceolate; orbicular small, round; reniform of the usual shape. Hind wings white, opaline. Length of the body 7 lines; of the wings 16 lines.

a. St. Domingo. From Mr. Stevens' collection.

South America.

Group 1.

Like the first European group.

61. AGROTIS INSPINOSA.

Fœm. *A. suffusæ affinis, major; caput, palpi et thorax antice flavescentia; alæ anticæ postice cinerascens, lineis medianis optime determinatis valde remotis, macula reniformi rotunda obscura; posticæ albæ, semihyalinæ, fusco minus inquinatæ.*

Agrotis inspinosa, Guén. Noct. i. 269, 432.

Brazil.

62. AGROTIS BIPARS.

Fœm. *Obscure cinerea; abdomen canum; pectus pilis longis albidis vestitum; alæ anticæ apud marginem exteriorem pallide cinereæ, maculis discalibus nigro marginatis, claviformi elongata, orbiculari pyriformi subquadrata, strigis exterioribus nigris lanceolatis; posticæ albæ, apice subfuscæ.*

Female. Dark gray. Abdomen hoary. Pectus clothed with long whitish hairs. Fore wings pale gray for nearly one-third of the length from the exterior border; discal spots bordered with black; claviform elongate; orbicular pyriform, attenuated towards the reniform, which is subquadrate, and is accompanied by a short black streak, the latter being nearly parallel to the inner side of the pyriform; a row of exterior black lanceolate streaks. Hind wings white; their tips slightly tinged with brown. Length of the body 7 lines; of the wings 16 lines.

a. Venezuela. From Mr. Dyson's collection.

63. AGROTIS CONSUETA.

Cervina (mas) aut cinerea (fœm.); thorax antice nigro fasciatus; abdomen testaceum; alæ anticæ apud costam obscuriores, lituris basalibus lineisque duabus duplicatis transversis undulatis nigris, claviformi nigra elongata, orbiculari longa angusta, albido marginata, reniformi magna nigricante, strigis submarginalibus lanceolatis maris albidis, fœm. cinereis; posticæ albæ, fœm. apud margines fuscæ.

Fawn-colour (male) or cinereous (female). Thorax with a black band in front. Abdomen testaceous. Fore wings darker along the costa, with some black marks near the base, and with two double transverse undulating black lines, one towards the base, the other exterior; claviform spot elongate, mostly black; orbicular long and narrow, with a whitish border; reniform large, of the usual form, mostly blackish; submarginal streaks lanceolate, whitish in the male, cinereous in the female. Hind wings white, brownish about the borders in the female. Length of the body 8 lines; of the wings 18 lines.

a—c. Venezuela. From Mr. Dyson's collection.

Group 2.

Like the third European group.

64. AGROTIS IGNICANS.

Mas et fœm. *Sordide ochraceo-flava; thorax antice maris niger, fœm. rufescens; alæ anticæ nigro conspersæ, apud marginem anteriorem rufo-ferrugineæ, lineis duabus medianis e punctis nigris, reniformi e macula ferruginea, lituris aliis obsoletis; posticæ albæ, opalinæ, semihyalinæ, margine obscuriore.*

Agrotis ignicans, Guen. Noct. i. 274, 440.

Brazil.

Var.? Mas. *Pallide cervina; antennæ simplices; thorax antice atro fasciatus; abdomen testaceum; alæ anticæ atro conspersæ, margine anteriore fuscescente, claviformi et orbiculari obsoletis, reniformi e guttis nonnullis nigris, linea anteriore e guttis nigris; posticæ albæ, marginibus angustis pallide fuscis.*

Male. Pale bright fawn-colour. Antennæ simple. Thorax with a deep black band in front. Abdomen testaceous. Fore wings minutely speckled with black, brownish along the exterior border; claviform and orbicular spots obsolete; reniform composed of some black dots; an exterior row of black dots. Hind wings white, with narrow pale brown borders. Length of the body 7 lines; of the wings 16 lines.

a. Venezuela. From Mr. Dyson's collection.

65. AGROTIS ANTEPOSITA.

Var.? *Fusco-cervina* ; thorax fasciis anticis vittisque duabus nigris ; abdomen albido-testaceum ; alæ anticæ venis strigaeque costali subapicali nigricantibus, maculis orbiculari et reniformi lineisque transversis angulosis pallide cervinis nigro marginatis, macula orbiculari subrotunda, reniformi lunari ; posticæ albæ, opalinæ, venis nonnunquam apice infuscatiss.

Agrotis anteposita, Guén. Noct. i. 278, 449.

Monte Video.

a. Honduras. From Mr. Dyson's collection.

b. Venezuela. From Mr. Dyson's collection.

Group 3.

Like the fourth European group.

66. AGROTIS PESRONII.

A. cinereæ affinis, minor ; antennæ validæ, minus ciliatæ ; alæ anticæ albidiores cinereæ, magis nitentes, disco subviolaceæ, lineis duabus medianis latioribus minus æqualiter undulatis, punctis marginalibus nigris, macula costali apicali.

Agrotis Pesronii, Guén. Noct. i. 282, 459.

Straits of Magellan.

67. AGROTIS DIFFERENS.

Mas. *Ferrugineo-fusca* ; antennæ subsetosæ ; thorax postice albido hirtus ; abdomen pallide fuscum, basi albidum ; alæ anticæ maculis costalibus pallidioribus et nigricantibus, lunulis marginalibus nigricantibus, lituris aliis obsoletis ; posticæ albæ, marginibus fusciscentibus.

Male. Ferruginous-brown. Antennæ minutely setose. Thorax with whitish hairs hindward. Abdomen pale brown, whitish towards the base. Fore wings with paler and blackish spots along the costa, and with blackish marginal lunules ; all the other marks obsolete. Hind wings white, with brownish borders. Length of the body 8 lines ; of the wings 16 lines.

a. Venezuela. From Mr. Dyson's collection.

68. AGROTIS BILITURA.

Mas. *Ochraceo-alba* ; antennæ pubescentes ; alæ anticæ nigro conspersæ, strigis duabus (una basali, altera discali) nigris, maculis lineisque omnino obsoletis.

Agrotis bilitura, Guen. Noct. i. 285, 467.

Chili.

Group 4.

Like the fifth European group.

69. AGROTIS GYPÆTINA.

Mas. *Robusta* ; antennæ validæ, sat crenulatæ ; abdomen crassum, pilosum ; alæ anticæ nigro-fuscæ, violaceo subinctæ, margine venaque mediana basi albis, striga discali nigra e maculis orbitali et reniformi interrupta, lineis transversis subalbidis ; posticæ albæ, margine venisque nigricantibus.

Agrotis Gypætina, Guen. Noct. i. 290, 473.

Monte Video.

70. AGROTIS HISPIDULA.

Fœm. *Testaceo-cinerea*, villosa ; thorax fusco bistrigatus ; abdomen crassum, depressum, obtusum ; alæ anticæ margine pallidiores, orbitali et reniformi subcontiguis ochraceo-albis nigro marginatis, reniformi angusta, orbitali ovata, lineis duabus medianis pallidis indistinctis ; posticæ albidæ.

Agrotis hispidula, Guen. Noct. i. 293, 476.

Chili.

Group 5.

Like the sixth European group.

71. AGROTIS IMPACTA.

Cinereo-fusca ; thorax antice cervinus fusco fasciatus ; abdomen canum ; alæ anticæ fusco subconsersæ, lineis transversis indistinctis duplicatis, undulatis fuscis macula orbitali magna elliptica testacea, reniformi obscure fusca testaceo marginata, lunulis marginalibus nigricantibus ; posticæ pallide cinereis, margine fusciscente.

Cinereous-brown. Thorax somewhat fawn-coloured and with brown bands in front. Abdomen hoary. Fore wings slightly speckled with brown, with indistinct transverse double undulating brown lines; claviform spot obsolete; orbicular elliptical, testaceous, nearly as large as the reniform, which is formed as usual, and is dark brown, with a testaceous border; marginal lunules blackish. Hind wings pale cinereous, brownish about the borders. Length of the body 7 lines; of the wings 16 lines.

a, b. Venezuela. From Mr. Dyson's collection.

c. Rio Janeiro. From Mr. Stevens' collection.

72. AGROTIS INTECTA.

Mas. *Cervina*; *antennæ subcrenulatæ*; *abdomen cinereum, apice cervinum*; *alæ anticæ fusco dense conspersæ*; *posticæ albidæ, marginibus fuscescentibus*.

Male. Fawn-colour. *Antennæ* minutely crenulate. Abdomen cinereous; apical tuft fawn-colour. Fore wings with brown speckles, which are frequently confluent, except along the costa; the usual spots almost obsolete. Hind wings whitish, brownish along the borders. Length of the body 8 lines; of the wings 18 lines.

a—c. Monte Video. Presented by C. Darwin, Esq.

73. AGROTIS? EPOPEA.

Cervino-testaceæ; *abdomen cervino fuscum*; *alæ anticæ maculis variis costalibus fasciaque lata exteriore postice abbreviata nigro-fuscis albido marginatis*; *posticæ cervino-fusæ, basi cervino-testaceæ*.

Phalæna-Noctua Epopea, *Cram. Pap. Exot.* iii. 144, pl. 272, f. G, H.

Surinam.

Africa.

Group 1.

Like the first European group.

74. AGROTIS LIPARA.

Alæ anticæ supra fusco-rufescentes, macula orbiculari subrotundata in medio fusca, lineolis sagittatis ad marginem in serie transversa; *posticæ fusæ ad basim pallidiores*.

Agrotis Lipara, Rambur, *Ann. Soc. Ent. Fr.* 2me Sér. vi. 68.
Guen. Noct. i. 260, 412.

Algeria.

75. AGROTIS SPICULIFERA.

Cinereo-testacea; abdomen albido-testaceum; alæ anticæ striga discali fusca, macula basali pallide cervina, maculis discalibus nigro marginatis, claviformi et orbiculari lanceolatis, reniformi apud marginem exteriorem incisa, strigis exterioribus fuscis, lunulis marginalibus nigris; posticæ albidæ, margine fuscescente.

Agrotis spiculifera, *Guen. Noct.* i. 266, 425.

a—c. South Africa. Presented by Dr. A. Smith.

d—f. Cape. From M. Dregé's collection.

76. AGROTIS SUBALBA.

Mas. *Albido-testacea, subtus albida; alæ anticæ fusco conspersæ, maculis reniformi et orbiculari magnis fusco ex parte marginatis, orbiculari subrotunda, reniformi subquadrata, lunulis marginalibus nigris, ciliis albidis; posticæ albæ.*

Male. Whitish testaceous, whitish beneath. Fore wings speckled with brown; reniform spot and orbicular spot large, incompletely bordered with brown; orbicular spot nearly round; reniform subquadrate, hardly larger than the orbicular; claviform obsolete; a row of black marginal points; ciliæ whitish. Hind wings white. Length of the body 7 lines; of the wings 16 lines.

a. Cape. From M. Dregé's collection.

77. AGROTIS MARGINALIS.

Fæm. *Nigro-fusca, cinereo tincta; abdomen albido-testaceum; lunulis marginalibus nigris, maculis discalibus nigro marginatis, claviformi lanceolata, orbiculari ovata, ciliis testaceis; posticæ albidæ, margine venisque infuscatis.*

Female. Blackish brown, with a cinereous tinge. Abdomen whitish testaceous. Fore wings with a row of little black marginal lunules; discal spots with black borders; claviform lanceolate; orbicular oval; reniform as usual; ciliæ testaceous. Hind wings whitish, brownish about the veins and along the borders. Length of the body 7 lines; of the wings 16 lines.

a. South Africa. Presented by Dr. A. Smith.

b. South Africa. From Mr. Argent's collection.

78. AGROTIS OBLIVIOSA.

Mas et fœm. *Cervina; abdomen pallide testaceum; alæ anticæ lituris costalibus lineisque transversis duplicatis undulatis nigricantibus, maculis discalibus nigro marginatis, claviformi lanceolata, orbiculari parva ovata aut subrotunda, lunulis marginalibus nigris; posticæ maris albæ, fœm. albidæ.*

Male and female. Fawn-colour. Abdomen pale testaceous. Fore wings with blackish costal marks, and with double transverse undulating blackish lines; discal spots with black borders; claviform lanceolate, resting on the first band; orbicular oval or nearly round, much smaller than the reniform, which has the usual form; these marks are occasionally more or less obsolete, and especially so in the female; a row of black marginal lunules. Hind wings of the male white, of the female whitish. Length of the body 6—7 lines; of the wings 14—18 lines.

a—c. Cape. From M. Dregé's collection.

d—f. South Africa. Presented by Dr. A. Smith.

79. AGROTIS INQUIETA.

Nigricans, subtus cinerea; antennæ subpectinatæ; abdomen cinereum; alæ anticæ lineis nonnullis transversis undulatis atris, orbiculari et reniformi subobsoletis; posticæ albæ.

Blackish, cinereous beneath. Antennæ slightly pectinated. Abdomen cinereous. Fore wings with several deep black undulating lines; orbicular and reniform spots almost obsolete. Hind wings white. Length of the body 6 lines; of the wings 14 lines.

a. South Africa. Presented by Dr. A. Smith.

Group 2.

Like the third European group.

80. AGROTIS ALBIFRONS.

Mas et fœm. *Albida; thoracis discus nigricans; alæ anticæ cinereo nebulosæ, maculis tribus magnis costalibus et annulis duobus discalibus nigris; posticæ albæ.*

Eugraphe albifrons (Noctua genuina, Graphiphora perspicua), Geyer, *Zeitr. Samml. Exot. Schmett.* 17, 430, f. 859, 860.

Agrotis albifrons, Guen. *Noct.* i. 276, 445.

a, b. South Africa. Presented by Dr. A. Smith.

c, d. Port Natal. From M. Gueinzus' collection.

81. AGROTIS RIMOSA.

Pallide cervina, nigro conspersa; thorax nigro fasciatus; abdomen pallide testaceum; alæ anticæ vix viridescente tinctæ, maculis costalibus nigris, orbiculari et reniformi magnis distinctis subrotundis nigro marginatis strigaeque nigra connexis; posticæ albæ.

Agrotis rimosa, Guen. Noct. i. 277, 446.

a, b. Cape. From M. Dregé's collection.

82. AGROTIS MUSCOSA.

Mas. *Olivaceo-viridis; abdomen pallide viride; alæ anticæ lituris strigisque plurimis ocellisque duabus discalibus nigris, gutta una discali nonnullisque subapicalibus albis; posticæ sordide albidæ.*

Mentaxya muscosa (Noctua genuina, Graphiphora perspicua), Geyer, Zeitr. Samml. Exot. Schmett. 10, 414, f. 827, 828.

Agrotis muscosa, Guen. Noct. i. 277, 447.

South Africa.

83. AGROTIS BILIX.

Mas. *Testaceo-lutea; alæ anticæ nigro conspersæ, rufescente variæ, lineis duabus medianis e punctis nigris, maculis distinctis nigris, orbiculari parva rotunda, claviformi obsoleta; posticæ albæ.*

Agrotis Bilix, Guen. Noct. i. 277, 448.

Cape.

84. AGROTIS CINCHONINA.

Fœm. A corticæ affinis. *Nigro-fusca; pedes rufescente cincti; alæ anticæ nebulosæ, rufescente variæ, maculis claviformi orbiculari et reniformi magnis approximatis, lineis duabus medianis duplicatis indistinctis, ciliis rufescentibus; posticæ nigro-cinereæ, ciliis incarnatis.*

Agrotis cinchonina, Guen. Noct. i. 281, 456.

Abyssinia.

Group 3.

Like the fourth European group.

85. AGROTIS LANIDORSA.

Fusco-cinerea ; antennæ ad apices pectinatæ, fasciculo basali albido ; alæ anticæ squamosæ, albido variæ, lineis duabus medianis duplicatis albidis, strigis submarginalibus lanceolatis, orbiculari et reniformi subobsoletis, ciliis latissimis ; posticæ obscure cinereæ, linea ciliisque pallidis.

Agrotis lanidorsa, Guen. Noct. i. 283, 460.

Cape.

Group 4.

Like the fourth European group.

86. AGROTIS DIVIDENS.

Mas. Cervina ; antennæ vix crenulatæ ; thorax fascia rufescente ; abdomen testaceum ; alæ anticæ ex parte rufescentes nigro conspersæ, lineis duabus transversis undulatis incompletis nigris, orbiculari et reniformi subellipticis cinereo pupillatis nigro marginatis, claviformi obsoleta ; posticæ albæ, subtus antice testaceæ.

Male. Fawn-colour. Antennæ hardly crenulate. Thorax with a reddish band. Abdomen testaceous. Fore wings partly reddish, darker in front, with black speckles, and with two incomplete transverse undulating black lines ; orbicular and reniform spots almost elliptical, pupilled with gray and bordered with black, the former about half the size of the latter ; claviform obsolete. Hind wings white, testaceous in front beneath. Length of the body 6 lines ; of the wings 14 lines.

a. Port Natal. From Dr. Krauss' collection.

Isle Tristram da Cunha.

Group 1.

Palpi conspicui ; articulus 3us 2i trientis non brevior. Antennæ longæ. Alæ anticæ angustæ, acuminatæ, margine exteriori

perobliquo. *Mas*.—Antennæ dense pubescentes, non pectinatæ. Sexualia magna. *Fæm*.—Antennæ graciles, simplices.

Palpi prominent; third joint full one-third of the length of the second. Antennæ long. Fore wings narrow, somewhat acuminate, very oblique along the exterior border. *Male*.—Antennæ thickly pubescent, not pectinated. Abdominal appendages large. *Female*.—Antennæ slender, simple.

87. AGROTIS COSTALIS.

Mas et fæm. Ferruginea; abdomen testaceum, apice cervinum; tarsi testaceo fasciati; alæ anticæ costa maculaque orbiculari testaceis, reniformi testaceo marginata.

Ferruginous. Abdomen testaceous, fawn-coloured at the tip. Tarsi with testaceous bands. Fore wings testaceous along the costa; orbicular spot testaceous; reniform spot with a testaceous border. Hind wings whitish; veins and border testaceous. *Var. β*.—Fore wings with ferruginous marks along the costa. *Var. γ*.—Fore wings pale ferruginous along the costa; orbicular and reniform spots whitish instead of testaceous. Length of the body 7 lines; of the wings 16 lines.

a—d. Isle Tristram da Cunha.

Group 2.

Antennæ *maris et fæm.* simplices. Thorax pilosissimus. Abdomen alas posticas longe superans. Alæ anticæ subtrigonæ, brevisculæ, apice acuminatæ.

Antennæ simple in both sexes. Thorax very hairy. Abdomen extending some distance beyond the hind wings. Fore wings rather short, nearly triangular, acuminate at the tips.

88. AGROTIS PILIFERA.

Obscure ferrugineo-fusca; abdomen pallidum; alæ anticæ innatatæ; posticæ fusco-cinereæ.

Dark ferruginous-brown. Abdomen paler. Fore wings without any marks. Hind wings brownish cinereous. Length of the body 7—9 lines; of the wings 16—20 lines.

a—c. Isle Tristram da Cunha.

Asia.

Group 1.

Like the first European group.

89. AGROTIS ARISTIFERA.

Pallide cervina; abdomen albido-testaceum; alæ anticæ maculis nigricante et ex parte albido marginatis, claviformi et orbiculari lanceolatis, reniformi subquadrata, linea transversa submarginali angulosa bilanceolata albida nigricante ex parte marginata, lunulis marginalibus nigris; posticæ albæ, fœm. margine fuscescente.

Agrotis aristifera, Guen. Noct. i. 266, 426.

Central Hindostan.

a. Ceylon. Presented by R. Templeton, Esq.

90. AGROTIS INTERJECTIONIS.

Albido-fuscescens (mas) aut obscure fusca (fœm.); abdomen albidum; alæ anticæ annulis duobus discalibus lituraque posteriore lanceolata obscurioribus; posticæ albæ.

Agrotis interjectionis, Guen. Noct. i. 281, 454.

Java.

91. AGROTIS TRANSDUCTA.

Albido-cervina; alæ anticæ lineis nonnullis transversis angulosis indistinctis guttisque costalibus albidis, macula orbiculari obliqua albido marginata, reniformi obscure fusca extus excavata, guttis marginalibus nigris; posticæ albæ, opalinæ, semihyalinæ, margine perangusto fusco.

Whitish fawn-colour. Abdomen paler than the thorax. Fore wings with several indistinct transverse zigzag whitish lines, and with whitish costal dots; claviform spot almost obsolete; orbicular spot oblong, oblique, with a whitish border; reniform spot dark brown, much excavated on the exterior side; a row of black marginal dots. Hind wings white, opaline, semihyaline, with very narrow brown borders. Length of the body 6 lines; of the wings 14 lines.

a. Ceylon. Presented by R. Templeton, Esq.

92. AGROTIS AVERSA.

Mas. *Pallidissime cervina* ; thorax antice fusco fasciatus ; abdomen albedo-testaceum ; alæ anticæ fusco conspersæ, lituris costalibus indistinctis lunulisque marginalibus fuscis, maculis nigricante submarginatis, claviformi angusta mediocriter longa, orbiculari et reniformi fusciscente pupillatis, illa subrotunda, linea transversa exterior undulata subobsoleta ; posticæ albæ, linea marginali fusciscente.

Male. Very pale fawn-colour. Thorax with a slender brown band in front. Abdomen whitish testaceous. Fore wings minutely speckled with brown, with indistinct brown marks along the costa, and with brown marginal lunules ; spots with incomplete blackish borders ; claviform narrow, moderately long ; orbicular and reniform with brownish pupils, the former nearly round, rather smaller than the latter, which has the usual form ; an exterior almost obsolete transverse undulating line. Hind wings white, with a brownish line along the borders. Length of the body 7 lines ; of the wings 16 lines.

a. Punjab. Presented by Gen. Hearsay.

Group 2.

Like the second European group.

93. AGROTIS CORRECTA.

Fœm. *Fusca, subtus albida* ; abdomen pallidissime fuscum, segmentorum marginibus albidis, alæ anticæ obscure fusæ, lituris costalibus lunulisque marginalibus nigris et pallidis, maculis concoloribus nigro marginatis, claviformi longiuscula sat angusta, orbiculari rotunda, lineis transversis subobsoletis ; posticæ albidæ, venis marginibusque fusciscentibus.

Female. Brown, whitish beneath. Abdomen very pale brown ; hind borders of the segments whitish. Fore wings dark brown, with black and pale costal marks and marginal lunules ; spots like the rest of the wing in colour, but with black borders ; claviform rather long and narrow ; orbicular round, hardly half the size of the reniform, which has the usual shape ; transverse lines just perceptible. Hind wings whitish ; veins and borders brownish. Length of the body 8 lines ; of the wings 18 lines.

a. North India. From Mr. Stevens' collection.

Group 3.

Like the fourth European group.

94. AGROTIS BASICLAVIS.

Fœm. *Ferruginea ; thorax antice nigro fasciatus ; abdomen pallide cervinum ; alæ anticæ striga basali nigra, lineis transversis undulatis indistinctis, maculis cinereo marginatis, orbiculari extus attenuata, reniformi extus valde excavata ; posticæ cervino-cinereæ, ciliis albidis.*

Female. Ferruginous. Thorax with a black band in front. Abdomen pale fawn-colour. Fore wings with the transverse lines undulating, slight and indistinct ; a black streak extending from the base to the reniform spot, which is much excavated on the outer side, and, like the orbicular, has a cinereous border ; orbicular irregular, attenuated towards the reniform. Hind wings cinereous, tinged with fawn-colour ; ciliæ whitish. Length of the body 8 lines ; of the wings 18 lines.

a. Hindostan.

Group 4.

Like the sixth European group.

95. AGROTIS INTRACTA.

Mas. *Obscure fusca ; antennæ dense ciliatæ ; alæ anticæ sat angustæ, lituris basalibus et costalibus nigris, lineis duabus transversis maculaque claviformi indistinctis, orbiculari et reniformi cinereo nigroque marginatis, illa subrotunda ; posticæ fuscescente-cinereæ.*

Male. Dark brown. Antennæ thickly ciliated. Fore wings rather narrow ; with black marks at the base and along the costa, near the tip of which there are two larger black marks ; the two transverse lines and the claviform spot indistinct ; orbicular and reniform with cinereous and black borders ; orbicular nearly round, much smaller than the reniform, which has the usual form. Hind wings brownish cinereous. Length of the body 7 lines ; of the wings 16 lines.

a. Nepaul. Presented by Major-Gen. Hardwicke.

96. AGROTIS FOEDA.

Fœm. *Fusco-cinerea*; *alæ anticæ lineis tribus transversis nigricantibus, orbiculari et macula postica angustis elongatis, reniformi arctata*; *posticæ cinereæ, basi ciliisque albidocinereis*.

Agrotis foeda, Lederer, *Verhandl. Zool. Botan. Verein. in Wien.* v. 107, pl. 1, f. 6.

Allied to *A. forcipula*.

Altai. Siberia.

•Australia.

Group 1.

Like the first European group.

97. AGROTIS RADIANUS.

Cinereo-fusca; *abdomen testaceum*; *alæ anticæ lunulis marginalibus nigris, venis albedo marginatis, maculis albo nigroque marginatis, claviformi elongata, orbiculari subfusiformi, reniformi sat magna*; *posticæ albide, fusco marginatæ*.

Agrotis radians, Guen. *Noct.* i. 261, 415.

Tasmania.

98. AGROTIS DECLARANS.

Mas. *Pallide cervina*; *antennæ subpectinatæ*; *abdomen albidotestaceum*; *tarsi nigro fasciati*; *alæ anticæ lineis transversis indistinctis undulatis fuscis, margine exteriori cinereo nebulosa, orbiculari et reniformi ex parte nigro marginatis, hac magna obliqua subelliptica*; *posticæ albæ, marginibus subcinereis*.

Male. Pale fawn-colour. Antennæ slightly pectinated. Abdomen whitish testaceous. Tarsi with black bands. Fore wings with very indistinct transverse undulating brown lines; a grayish tinge along the exterior border; orbicular and reniform with incomplete black borders, the former large, oblique, subelliptical. Hind wings white; borders slightly grayish. Length of the body 7 lines of the wings 16 lines.

a. ———?

99. AGROTIS MUNDA.

Mas et fœm. *Canâ, pallidior* (mas) *aut obscurior* (fœm.); *thorax fusco albidoque varius; alæ anticæ macula basali testacea, maculis discalibus nigro marginatis, claviformi strigae discali fuscis, orbiculari fusiformi, reniformi oblonga subquadrata, strigis exterioribus obscure fuscis apice albidis, lunulis marginalibus nigris; postica alba, opalinæ, fusco marginatæ, macula apicali subtus magna nigro-fusca.*

Male. Very nearly allied to *A. radians*. Hoary. Thorax with a brown band, or brownish with a whitish band, and a dark brown anterior band. Fore wings brown along the exterior border, with a testaceous mark near the base in junction with a lanceolate brown streak, which is bordered with black; a brown discal streak interrupted by the reniform and orbicular spots which are bordered with black; orbicular spot fusiform; reniform oblong subquadrate, not contracted in the middle; a row of exterior dark brown streaks, and another of black marginal lunules, the former with whitish tips. Hind wings white, opaline, with brown borders; under side with a large dark brown spot on each tip. *Female.*—Darker. Length of the body 6 lines; of the wings 14 lines.

a. Adelaide. From Mr. Stevens' collection.

b. Sidney. From Mr. Lambert's collection.

c—e. Adelaide. Presented by the Entomological Club.

f. Tasmania. Presented by — Walcott, Esq.

g—l. Australia. Presented by J. Hunter, Esq.

m. Australia. Presented by the late Earl of Derby.

n. Tasmania. Presented by R. Butler, Esq.

o, p. Tasmania. Presented by E. Doubleday, Esq.

q, r. Australia. Presented by H. G. Harrington, Esq.

s, t. New South Wales. From Mr. Wood's collection.

v, u. Australia.

w. New Zealand. From Mr. Churton's collection.

The New Zealand specimen is somewhat paler than those from Australia, and its markings are rather different.

100. AGROTIS SPINA.

Ferruginea (mas) *aut nigro-cinerea* (fœm.); *abdomen basi pallidum; alæ anticæ lineis transversis duplicatis indistinctis obscurioribus et pallidioribus, striga discali maculis reniformi et orbiculari interrupta annuloque posteriore nigris; orbiculari subelliptico, reniformi sublunari.*

Agrotis spina, *Guen. Noct. i.* 269, 433.

Australia.

- a. Sydney. From Mr. Lambert's collection.
- b. Tasmania. From Mr. A. J. Smith's collection.
- c. Tasmania. Presented by Morton Allport, Esq.
- d. Tasmania. Presented by R. Butler, Esq.

Group 2.

101. AGROTIS CAPULARIS.

Mas et fœm. *Testaceo-cinerea; alæ anticæ squamis pallidioribus, lineis transversis duplicatis undulatis nigro marginatis, orbiculari nulla aut punctiformi, reniformi vaga nigra ochraceo submarginata; posticæ cinereæ, venis obscurioribus. Mas.—Antennæ pubescentes.*

Agrotis capularis, *Guen. Noct. i.* 271, 437.

Australia.

102. AGROTIS ATRA.

Fœm. *Nigra; palpi albi, articulo 2o nigro maculato, antennæ pubescentes; oviductus exsertus; alæ anticæ subnitentes, maculis orbiculari et reniformi cinereis, hac lunulata, illa punctiformi; posticæ obscure fuscæ, basi vix pallidiores.*

Agrotis atra, *Guen. Noct. i.* 272, 438.

Var. Hydræcioides, Guen. Fœm. Fusca; thorax antice cinereo marginatus; oviductus exsertus.

Var. testaceicollis, Guen. Fœm. Nigro-fusca; thorax antice cinereo-rufescens; abdomen apice obtusum, oviductu non exserto; alæ anticæ rufo-fusco marginatæ, strigis submarginalibus nigris, macula reniformi alba.

Var. cinereicollis, Guen. Fœm. Atra; thorax antice rufescente-cinereus; alæ anticæ innotatæ, reniformi cinerea lunulata excepta; posticæ albæ, venis margineque nigris.

Var.? reposita, Guen. Fœm. Nigro-cinerea; abdomen valde obtusum, oviductu nullo; alæ anticæ maculis lineisque distinctis; posticæ albæ, venis margineque nigris.

Australia.

Var. ? Fœm. *Nigra* ; *palpi albi, nigro fasciati* ; *abdomen fuscum* ; *alæ anticæ lineis transversis incompletis maculaque discali atris, reniformi albida aut cervina postice subattenuata, orbiculari minima albida subrotunda atro marginata nonnunquam subobsoleta* ; *posticæ fuscæ*.

Female. Black. Palpi white, with a black band. Abdomen brown. Fore wings with incomplete transverse deep black lines, and with a deep black spot by the reniform, which is whitish or fawn-colour, and somewhat attenuated hindward ; orbicular whitish, very small, nearly round, with a deep black border, occasionally almost obsolete. Hind wings brown. Length of the body 7 lines ; of the wings 16 lines.

a. New Holland. Presented by Major-General Hardwicke.

b. Tasmania. Presented by E. Doubleday, Esq.

103. AGROTIS TIBIATA.

Cinerea ; *palpi nigro albidoque varii* ; *tibiæ posticæ validæ pilosæ* ; *alæ anticæ squamosæ, nigro variæ, margine exteriori obscuro, lineis medianis interruptis denticulatis vix undulatis, orbiculari punctiformi subobsoleta, reniformi parva arcuata nigricante fulvescente marginata* ; *posticæ nigro-cinereæ*.

Agrotis tibiata, Guen. Noct. i. 273, 439.

Australia.

Group 3.

Like the third European group.

104. AGROTIS INFUSA.

Alæ anticæ fuscæ maculis ordinariis pallidioribus lineola nigra conjunctis, basi strigis duabus angulatis obscurioribus ; *posticæ fuscæ*.

Noctua infusa, Boisd. Voy. de l'Astrolabe, Pt. 1, Lep. 240.

New Holland.

Group 4.

Mas. Antennæ late pectinatæ. Alæ anticæ latiusculæ, extus subquadratae.

Male. Antennæ deeply pectinated. Fore wings rather broad, subquadrate exteriorly.

105. AGROTIS RUBRILINEA.

Mas. *Cervina* ; caput rufescens ; antennæ albidæ, late pectinatæ ; thorax antice ferrugineus, fascia rufescente ; abdomen pallidum, apice rufescens aut fuscum ; alæ anticæ latiusculæ, extus subquadratae, strigis nonnullis transversis minutis nigricantibus, linea exteriori transversa incompleta e guttis nigris, macula subapicali fusca, lunulis marginalibus nigris, claviformi obsoleta, orbiculari parva fusca, reniformi magna obscure fusca, guttis duabus contiguis nigris ; posticæ cinereæ, venis marginibusque fusciscentibus.

Var. *Alæ anticæ lituris subobsoletis.*

Male. Fawn-colour. Head reddish. Antennæ whitish. Thorax ferruginous in front, with a reddish band. Abdomen pale, reddish or brown at the tip. Fore wings with some transverse minute blackish streaks, with an exterior incomplete transverse line of black dots, with a brown subapical spot, and with black marginal lunules ; claviform spot obsolete ; orbicular represented by a small brown spot, and having another small brown spot behind it ; reniform large, dark brown, of the usual form, and having two black dots between it and the orbicular ; nearly all the above marks are occasionally partly or nearly wholly obsolete. Hind wings cinereous ; veins and borders brownish. Length of the body 6—7 lines ; of the wings 14—16 lines.

a—c. Australia. Presented by Major-General Hardwicke.

Group 5.

Like the fifth European group.

106. AGROTIS RECONDITA.

Mas et fœm. *Ferrugineo-fusca, subtus albida ; caput antice album ; palpi albi, articulo 3o elongato cylindrico ; thorax lineis transversis albidis ; abdomen cinereum ; alæ anticæ nigro conspersæ, nigricante subnebulosæ, lineis transversis nigris duplicatis undulatis, orbiculari et reniformi nigricantibus, illa parva subrotunda ; posticæ cinereæ, marginibus latis fusciscentibus, litura subtus discali fusca.* **Mas.**—*Antennæ mediocriter pectinatæ.*

Female. Ferruginous-brown, whitish beneath. Head white in front. Palpi white ; third joint cylindrical, almost half the length

of the second. Thorax with whitish transverse lines. Abdomen cinereous. Fore wings speckled with black; transverse lines double, undulating, black; a blackish shade here and there on the disk; orbicular and reniform spots blackish, the former small, nearly round. Hind wings cinereous, with broad brownish borders; a brown discal mark on the under side, where the brown borders are well-defined. Length of the body 7 lines; of the wings 16 lines.

a. Tasmania. Presented by R. Butler, Esq.

Country unknown.

Group 1.

Like the first European group.

107. AGROTIS PORPHYRICOLLIS.

Mas. *Rufo-cinerea*; *palpi pedesque albido varii*; *antennæ longæ, late pectinatæ*; *thorax antice porphyrio rufus*; *alæ anticæ robustæ, velutinæ, squamosæ, fusco strigatæ, maculis nigris fusco marginatis, orbiculari punctiformi, reniformi informi, claviformi subobsoleta, lineolis marginalibus nigris; posticæ nigricantes, basi pallidiores.*

Agrotis porphyricollis, *Guen. Noct. i.* 259, 410.

108. AGROTIS INSTRUCTA.

Fœm. *Cervina, subtus alba*; *thorax fascia antica angusta fusca; abdomen albido-testaceum; alæ anticæ fusco subconspersæ, lineis duabus transversis angulosis incompletis fusco guttatis, lunulis marginalibus fuscis, claviformi subobsoleta, orbiculari alba subelliptica sat magna fusco subnotata, reniformi subrotunda obscure fusca albido marginata; posticæ albæ.*

Female. Fawn-colour, white beneath. Thorax with a narrow brown band in front. Abdomen whitish testaceous. Fore wings very minutely speckled with brown; the two usual transverse lines incomplete, brown, and very zigzag, each angle marked by a dark brown dot; a row of dark brown marginal lunules; claviform almost obsolete; orbicular somewhat elliptical, rather large, white, slightly marked with brown; reniform nearly round, dark brown, with a whitish border. Hind wings pure white. Length of the body 7 lines; of the wings 16 lines.

a ——— ?

109. AGROTIS INCONGRUA.

Mas. *Nigro-fusca*; *antennæ mediocriter pectinatae*; *abdomen cinereum*; *alæ anticæ lineis transversis undulatis atris, orbiculari et reniformi subobsoletis*; *posticæ albæ, marginibus latissimi fuscis*.

Male. Blackish brown. *Antennæ moderately pectinated*. Abdomen cinereous. Fore wings with the usual transverse undulating lines deep black, rather distinct; orbicular and reniform spots almost obsolete. Hind wings white, with very broad brown borders. Length of the body 6 lines; of the wings 14 lines.

a. ——— ?

110. AGROTIS INSIGNATA.

Fœm. *Ferrugineo-fusca*; *thorax nigro vittatus*; *abdomen cinereum*; *alæ anticæ cinereo conspersæ, lineis transversis pallidioribus et nigricantibus undulatis distinctis, strigis duabus basalibus nigris, macula claviformi testacea, orbiculari et reniformi cinereo marginatis*; *posticæ fuscescente, cinereæ, ciliis albidis*.

Female. Ferruginous-brown. Thorax with a black stripe. Abdomen cinereous. Fore wings with some cinereous speckles, which are most numerous towards the base of the costa; transverse lines paler and blackish, undulating, distinct; claviform spot testaceous, included in a black streak; orbicular and reniform spots with cinereous borders; orbicular nearly round, of moderate size, interrupting a black streak which extends to the reniform, the latter of the usual shape. Hind wings brownish cinereous, with whitish ciliæ. Length of the body $6\frac{1}{2}$ lines; of the wings 16 lines.

a. ——— ? From Mr. Milne's collection.

Group 2.

Like the third European group.

111. AGROTIS MESSIUM.

Mas. *Albida*; *thorax antice fuscus*; *alæ anticæ strigis, margine exteriore, lineis duabus medianis duplicatis fuscis, maculis discalibus fusco marginatis, orbiculari rotunda fusco pupillata, claviformi parva*; *posticæ albæ, angulo exteriore subfusco*.

Agrotis messium, Guen. Noct. i. 276, 444.

112. AGROTIS TRANSVERSA.

Fœm. *Cervina* ; abdomen pallidum ; alæ anticæ strigis plurimis transversis abbreviatis pallide fuscis, lituris costalibus et lunulis marginalibus obscurioribus, maculis fuscis nigro-fusco marginatis, claviformi longa perangusta, orbiculari rotunda, reniformi informi ; posticæ subcinereæ, venis marginibusque subcervinis, ciliis albidis.

Female. Fawn-colour. Abdomen paler. Fore wings with numerous short transverse pale brown streaks, with darker brown costal marks and marginal lunules ; spots brown, bordered with dark brown, claviform long, very narrow ; orbicular round, much smaller than the reniform, which is irregular. Hind wings somewhat cinereous ; veins and borders somewhat fawn-colour ; ciliæ whitish. Length of the body 8 lines ; of the wings 18 lines.

a. ——— ?

113. AGROTIS PRODENOIDES.

Mas. *Albido-testacea* ; antennæ subciliatæ ; thorax fascia antica obscura rufo-ferruginea ; abdomen pallide cervinum ; pedes rufescentes ; alæ anticæ nigro conspersæ, fascia marginali obscure rufa nigro marginata, claviformi et orbiculari obsoletis, reniformi e macula lutea guttisque tribus nigris, linea exteriori transversa e guttis nigris, costa nigro biguttata aut triguttata ; posticæ albæ, opalinæ, semihyalinæ.

Male. Whitish testaceous. Antennæ very minutely ciliated. Thorax with a dark reddish brown band in front. Abdomen pale fawn-colour. Legs reddish. Fore wings speckled with black ; a dark red black-bordered band along the exterior border ; claviform and orbicular spots obsolete ; reniform undefined, distinguished by a luteous spot and three black dots ; an exterior transverse line of black dots, and two or three black costal dots. Hind wings white, opaline, semihyaline. Length of the body 8 lines ; of the wings 18 lines.

a. ——— ? Presented by E. Doubleday, Esq.

114. AGROTIS EXEMPTA.

Mas. *Pallide testacea; caput supra et thorax anticus fusca; alæ anticæ lituris costalibus lineisque transversis undulatis nigris, striga informi discali pallide fusca, striga obliqua inter maculas albida, orbiculari subobsoleta, reniformi fusca albido nigroque marginata, lunulis marginalibus nigris; posticæ albæ, semihyalinæ, marginibus perangustis fuscis.*

Male. Pale testaceous, whitish testaceous beneath. Head above and fore part of the thorax brown. Fore wings with black marks along the costa, and with the usual black transverse undulating lines, which are very slight, and with an irregular pale brown discal streak; a whitish oblique streak between the almost obsolete orbicular spot and the reniform one; the latter distinct, consisting of a brown spot surrounded with a whitish hue, which is again bordered with black; a row of black marginal lunules. Hind wings white, semihyaline, with very narrow brown borders. Length of the body 6 lines; of the wings 14 lines.

a. ———?

Genus 3. LYCOPHOTIA.

Statura parva. Corpus sat validum. Proboscis breviuscula. Palpi breves, porrecti, caput paullo superantes; articulus 3us conicus, 2i quadrante non longior. Antennæ corporis dimidio valde longiores. Abdomen alas posticas perpaullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriore subobliquo. Mas.—Antennæ crenulatæ.

Lycophotia, Hübn. Verz. Schmett. 215. Steph. Cat. Brit. Lep. 73.

Chersotis, p., Boisd. Ind. Méth. 103.

Scotophila, Steph. Ill. Brit. Ent. Haust. iii. 18.

Size small. Body rather stout. Proboscis rather short. Palpi short, porrect, extending a little beyond the head; third joint conical, not more than one-fourth of the length of the second. Antennæ very much more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, slightly oblique along the exterior border. *Male.*—Antennæ crenulate.

Europe.

1. LYCOPHOTIA PORPHYREA.

Rubida; thorax albo varius; abdomen testaceum; alæ anticæ ocellis duobus discalibus fasciisque angulosis albis nigro diffuse marginatis; posticæ cinereæ.

———, *Engr. Pap. d'Eur.* 340, a—c.

Noctua porphyrea, *Wien. Verz.* 83, 17. *Hübner. Samml. Eur. Schmelt. Noct.* pl. 19, f. 93; pl. 100, f. 473. *Freyer, Alt. Beitr.* pl. 34, 109; *Ent. Zeit. Stett.* ii. 95.

Agrotis porphyrea, *Treit. Schmelt. Eur.* v. 2, 73, 3. *Dup. Hist. Nat. Léop. Fr.* iii. 440, pl. 100. *Guen. Noct.* i. 295, 481.

Scotophila porphyrea, *Steph. Ill. Brit. Haust.* iii. 19.

Chersotis porphyrea, *Boisd. Ind. Méth.* 103, 769. *Guen. Ann. Soc. Ent. Fr.* vi. 239.

Lycophotia porphyrea, *Hübner. Verz. Schmelt.* 215, 2143

Noctua (Polia) porphyrea, *Meig. Syst. Besch.* iii. 133, 93, pl. 104, f. 2.

Noctua picta, *Fabr. Ent. Syst.* iii. 2, 91, 270.

Noctua birivia, *Bork. Eur. Schmelt.* iv. 206, 93.

Noctua concinna, *Esp. Schmelt.* iv. pl. 152, f. 1.

Noctua Ericæ, *Haw. Lep. Brit.* 187. *Donov. Nat. Hist. Engl. Ins.* pl. 360, f. 1.

a—o. England. From Mr. Stephens' collection.

p—s. England.

2. LYCOPHOTIA ERYTHRINA.

Porphyrio-fusca; palpi apice cinerei; alæ anticæ nitentes, apice obtusæ, nebulis pallidioribus punctisque albis, maculis quatuor costalibus albis nigro nebulosis, orbiculari et reniformi obsoletis; posticæ nigræ.

Agrotis erythrina, *Ramb. Ann. Soc. Ent. Fr.* 1849. *Guen. Noct.* i. 296, 483.

Central France.

South America.

3. LYCOPHOTIA? BRENNA.

Fusco-cervina; alæ anticæ ferrugineo-fuscæ, striga costali basali cervina annulum includente, venis nigris, macula antica obliqua fasciisque duabus exterioribus cinereis; posticæ margine obscuriore.

Phalæna-Noctua Brenna, *Cram. Pap. Exot.* iv. 223, pl. 396, f. H.
Surinam.

4. LYCOPHOTIA SANCTANNA.

Fusca; alæ anticæ nigro alboque variæ, costa alba lituris maculaque majore nigris, lineis duabus, orbiculari et reniformi albis, his parvis, orbiculari ovata, reniformi fusco nebuloza; posticæ albido-cinereæ.

Agrotis sanctanna, *Guen. Noct.* i. 295, 482.

Brazil.

5. LYCOPHOTIA?? GRANDIMACULA.

Mas et fœm. Porphyrio-fusca; palpi ascendentes, articulo 2o arcuato ensiformi gracili; tibiæ non spinosæ; alæ anticæ apud medium violaceo-cinereo variæ, lineis duabus medianis albis, orbiculari et reniformi indistinctis; posticæ pallide cinereæ, lunula distincta lineaque subobsoleta discalibus.

Agrotis grandimacula, *Guen. Noct.* i. 296, 484.

Brazil.

This species, on account of the structure of its palpi, can hardly belong to the genus *Lycophotia*.

Africa.

6. LYCOPHOTIA? STALACTIS.

Mas. Rufa, thorax apice albo maculatus; abdomen flavum; alæ anticæ striga basali, fascia subbasali, guttis, discalibus strigisque apicalibus albis; posticæ fulvescente, basi flavæ.

Triphassa stalactis (*Noctua genuina*, *Achatis suavis*), *Hübner. Samml. Exot. Schmett.* i. 26, 75, f. 149. 150; *Verz. Schmett.* 215, 2142.

Cape.

Genus 4. HAPALIA.

Corpus robustum. Proboscis mediocriter longa. Palpi breves, subascendentes; articulus 3us conicus, minimus. Antennæ sim-

plices, corporis dimidio longiores. Thorax subsquamosus. Abdomen alas posticas vix superans. Pedes validi; tibiæ posticæ calcariibus quatuor mediocriter longis. Alæ anticæ sat angustæ, apud costam rectæ, angulo apicali obtuso, margine exteriori antice recto postice rotundato.

Hapalia, *Hübner. Verz. Schmett.* 220. *Steph. Cat. Brit. Lep.* 102.

Actebia, *Steph. Ill. Brit. Ent. Haust.* iii. 20.

Spælotis, p., *Boisd. Ind. Méth.* 107.

Agrotis, p., *Guen. Noct.* i. 296.

Body stout. Proboscis moderately long. Palpi short, slightly ascending; third joint conical, very minute, not more than one-sixth of the length of the second. Antennæ simple in both sexes, more than half the length of the body. Thorax with broad plumes, somewhat like scales. Abdomen hardly extending beyond the hind wings. Legs stout; hind tibiæ with four moderately long spurs. Fore wings rather narrow, straight in front, obtusely angular at the tips, straight along the fore part of the exterior border, which is rounded hindward.

Europe.

1. HAPALIA PRÆCOX.

Prasina; thorax albo varius, vittis duabus guttularibus nigris; abdomen testaceum, basi albidum; alæ anticæ albo conspersæ, ocellis duobus discalibus lineisque tribus transversis undulatis albis nigro marginatis, fascia submarginali fusca; posticæ subtestaceæ, fascia marginali fuscescente.

———, *Röes. Ins. Bel.* i. pl. 51, f. 1—4. *Engr. Pap. d'Eur.* 466, a—c.

Phalæna-Noctua præcox, *Linn. Syst. Nat.* i. 517. *Gmel. ed. Syst. Nat.* i. 5, 2573, 174.

Noctua præcox, *Fabr. Sp. Ins.* ii. 232, 118; *Mant. Ins.* ii. 169, 230; *Ent. Syst.* iii. 2, 97, 289. *Esp. Schmett.* iv. pl. 89, f. 4—7. *Bork. Eur. Schmett.* iv. 430, 172. *Donov. Nat. Hist. Brit. Ins.* vi. pl. 213.

Noctua præceps, *Wien. Verz.* 82, 12. *Bork. Eur. Schmett.* iv. 433, 173. *Hübner. Eur. Schmett. Noct.* pl. 15, f. 70. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 73, f. 2.

Hapalia præcox, *Hübner. Verz. Schmett.* 220, 2204. *Steph. Cat. Brit. Lep.* 102.

Actebia præcox, *Steph. Ill. Brit. Ent. Haust.* iii. 21. *Curt. Brit. Ent.* xii. pl. 539.

Noctua (Polia) *præcox*, *Meig. Syst. Besch.* iii. 133, 92, pl. 103 f. 7.

Agrotis præcox, *Treit. Schmett.* v. 2, 60, 2. *Guen. Noct.* i. 296, 485.

Spælotis præcox, *Boisd. Ind. Méth.* 107, 803.

a—h. England. From Mr. Stephens' collection.

i—k. England.

l, m. Europe. From M. Becker's collection.

North America.

2. HAPALIA INDICANS.

Mas et fœm. *Pallide viridis; palpi fusci; abdomen testaceum, basi albidum; alæ anticæ lituris costalibus fasciisque albis nigro marginatis, maculis duabus luteis, orbiculari et reniformi indistinctis, ciliis albis nigro notatis; posticæ albidæ, venis margineque fusciscentibus, ciliis albis.*

Male and female. Pale green. Palpi mostly brown. Abdomen pale testaceous, whitish towards the base. Fore wings with white black-bordered marks along the costa, and with white black-bordered undulating bands; two luteous spots, one between the orbicular and reniform spots, which are indistinct, the other behind the first; ciliæ white, with black lunules. Hind wings whitish, brown in front and with a narrow brown border; veins also brown; ciliæ white. Length of the body $5\frac{1}{2}$ —6 lines; of the wings 13—14 lines.

a, b. E. Florida. Presented by E. Doubleday, Esq.

South America.

3. HAPALIA GLAUOPTERA.

H. præcox affinis; alæ anticæ macula reniformi maxima valde excavata, claviformi e striga atra, fascia rufo-ferruginea, strigis tribus costalibus nigris, nebula apud maculas nigricante, venis nigro strigatis; posticæ nigricantes, ciliis flavescentibus.

Agrotis glaucoptera, *Guen. Noct.* i. 297, 486

Brazil.

Country unknown.

4. HAPALIA ALTERNANS.

Mas et fœm. *Glauco-viridis; caput fuscum; thorax fasciis anticeis nigricantibus; abdomen cervinum, fusco fasciatum; alæ anticæ apud costam fuscescentes, lineis transversis undulatis albidis nigro marginatis, maculis duabus (una fusca, altera nigra) exterioribus, lunulis marginalibus nigris, orbiculari et reniformi fusco divisis, hac fusco pupillata, illa subquadrata; posticæ cervinæ, ciliis albidis.*

Male and female. Glaucous-green. Head dark brown. Thorax with blackish bands in front. Abdomen fawn-colour, with brown bands. Fore wings with a brown tinge in front; transverse lines undulating, whitish, with black borders; a submarginal brown spot in the disk, and a black one near the interior angle; marginal lunules black; a brown space between the orbicular spot and the reniform, which are nearly equally large, the former subquadrate, the latter of the usual form, and with a brownish disk. Hind wings fawn-colour, with whitish ciliæ; under side with a brown discal spot. Length of the body 6 lines; of the wings 14 lines.

a, b. ———?

Genus 5. CHERA.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, porrecti, breves; articulus 3us minimus. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ longiusculæ, apud costam rectæ, apice rotundatæ, margine exteriori sat obliquo.

Chera, *Hübneri Verz. Schmett.* 211.

Agrotis, p., *Treit.*; *Guen.*

Polia, p., *Donzel.*

Body stout. Proboscis moderately long. Palpi short, porrect; third joint very small. Antennæ simple, much more than half the length of the body. Abdomen extending rather beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings rather long, straight in front, rounded at the tips, somewhat oblique along the exterior border.

1. CHERA RENIGERA.

Fœm. *Alæ anticæ fulvo-cinereæ, fusco pulverulatae, strigis transversis fuscis pallidis, maculis duabus flavo-cinereis nigro cinctis; posticæ fulvo-cinereæ, ad marginem fuscae, fimbria flavescente.*

Polia dumosa, *Donzel. Ann. Soc. Ent. Fr.* vi. 475, 5, pl. 18, f. 5.
Boisd. Ind. Méth. 127, 1026. *Gey. Samml. Eur. Schmett.* 880.
Dup. Hist. Nat. Lép. Fr. Suppl. iii. 446, pl. 39. *Guen. Ann. Soc. Ent. Fr.* vi. 244.

Agrotis renigera, *Guen. Noct.* i. 297, 487.

Noctua renigera, *Hüb. Samml. Eur. Schmett. Noct.* pl. 82, f. 384.

Agrotis renigera, *Treit. Schmett. Eur.* i. 197; *Suppl.* 32. *Dup. Hist. Nat. Lép. Fr.* vi. 41, pl. 74, f. 6. *Herr.-Schæff. Schmett. Eur.* ii. pl. 80, f. 413, 414.

Chera renigera, *Hüb. Verz. Schmett.* 211, 2113.

Noctua (Agrotis) renigera, *Meig. Syst. Besch.* iii. 94, 23, pl. 95, f. 9.

France. Hungary.

Genus 6. SPÆLOTIS.

Corpus robustum. Proboscis mediocriter longa. Palpi breves, ascendentes; articulus 3us linearis, 2i dimidio brevior. Antennæ graciles, corporis dimidio valde longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis; anticæ spinosæ. Alæ mediocriter latæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriori subconvexo mediocriter obliquo. Mas.—Antennæ crenulatæ.

Spælotis, *Boisd. Ind. Méth.*

Agrotis, p., *Ochs.; Treit.; Guen. Noct.* i. 299.

Rhyacia, p., *Epipsilia*, p., *Mimetes*, p.? *Chera*, p., *Ogygia*, p.,
Hüb. Verz. Schmett. 209, 210, 211, 225.

Caradrina, p., *Herr.-Schæff.*

Body stout. Proboscis moderately long. Palpi short, ascending; third joint linear, less than half the length of the second. Antennæ slender, very much more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout;

hind tibiæ with four long spurs; fore tibiæ spinose. Wings moderately broad. Fore wings straight in front, slightly rounded at the tips, slightly convex and moderately oblique along the exterior border. *Male*.—Antennæ crenulated.

Europe.

A. Alæ posticæ ciliis albis.

A. Alæ albidæ. - - - - - decora, *Wien. Verz.*

B. Alæ obscuræ.

A. Alæ posticæ cinereæ. - - - - - birivia, *Wien. Verz.*

B. Alæ posticæ fuscæ. - - - - - detorta, *Eversm.*

B. Alæ posticæ ciliis albidis, testaceis aut cinereis.

A. Alæ anticæ longiores, margine exteriore magis obliquo.

A. Alæ anticæ luteo variæ. - - - - - lucipeta, *Wien. Verz.*

B. Alæ anticæ luteo non variæ.

i. Alæ posticæ maris albæ. - - - - - Valesiaca, *Boisd.*

ii. Alæ posticæ maris albidæ.

* Alæ anticæ rufescente-cinereæ. - - - - - gilva, *Donzel.*

** Alæ anticæ flavesciente tinctæ. - - - - - fugax, *Ochs.*

*** Alæ anticæ flavesciente non tinctæ.

† Alæ anticæ lineis nigro marginatis.

grisea, *Fabr.*

†† Alæ anticæ lineis nigro non marginatis.

lucerna, *Linn.*

iii. Alæ posticæ testaceæ. - - - - - myctimera, *Boisd.*

iiii. Alæ posticæ maris cinereæ.

* Alæ anticæ fusæ. - - - - - dumetorum, *Geyer.*

** Alæ anticæ cinereæ.

† Orbicularis minuta. - - - - - Helvetina, *Anderr., Boisd.*

†† Orbicularis non minuta. - - - - - squalida, *Boisd.*

B. Alæ anticæ breviores, margine exteriore minus obliquo.

A. Alæ posticæ margine nigricante, bene determinato.

confusa, *Frey.*

B. Alæ posticæ margine obscuriore non bene determinato.

iiii. Alæ posticæ fusæ. - - - - - latitans, *Guen.*

a. Alæ anticæ ferruginosæ.

i. Thorax pilis nonnullis albidis. - - - - - Senna, *Geyer.*

ii. Thorax pilis nullis albidis. - - - - - ravida, *Wien. Verz.*

b. Alæ anticæ cervinæ aut cinerascens.

i. Statura major.

- * Orbicularis elliptica. - - pyrophila, *Wien. Verz.*
 ** Orbicularis rotunda. - - - sibirica, *Boisd.*
 ii. Statura minor.
 * Alæ anticæ cinereæ, pallidiores. - latens, *Hüb.*
 ** Alæ anticæ cervinæ, obscuriores. - fimbriola, *Hüb.*

1. SPÆLOTIS FUGAX.

Cinerea; abdomen canescens; tarsi albo fasciati; alæ anticæ ex parte flavesciente tinctæ, fasciis angulosis fusciscentibus, maculis subobsoletis, guttis marginalibus nigricantibus; posticæ albidæ, venis guttisque marginalibus fusciscentibus.

Noctua fugax, *Dup. Hist. Nat. Léop. Fr.* iii. 27, pl. 73. *Frey. Beit. Ges. Eur. Schm.* pl. 45.

Spælotis fugax, *Boisd. Ind. Méth.* 107, 802. *Herr.-Schæff. Schm.* *Eur.* ii. pl. 34, f. 170.

Agrotis fugax, *Ochs. Nachtr.* 67, 8. *Treit. Schm.* *Eur.* i. 195. *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 299, 491.

Noctua lucerneæ, *Hüb. Samml. Eur. Schm.* *Noct.* f. 44. *Bork. Eur. Schm.* 99.

Chera fugax, *Hüb. Verz. Schm.* 211, 2112.

a. Europe. From M. Becker's collection.

2. SPÆLOTIS SENNA.

Fusco-cinerea; abdomen testaceum; alæ anticæ ocellis duobus discalibus, fasciis tribus undulatis maculisque discalibus pallidioribus nigro ex parte marginatis; posticæ cinereæ, basi pallidiores.

Noctua Senna, *Geyer, Samml. Eur. Schm.* i. 771, 772. *Frey. Neu. Beit. Schm.* pl. 66, f. 1.

Agrotis Senna, *Treit. Schm.* *Eur. Suppl.* x. 18. *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 300, 492.

Spælotis Senna, *Boisd. Icon. Léop. d'Eur.* pl. 77; *Ind. Méth.* 107, 801. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 183, pl. 18, f. 2.

Agrotis Valdensis, *Boisd. Ind. Méth. Ed.* 1.

a, b. Europe. From M. Becker's collection.

3. SPÆLOTIS DETORTA.

Alæ anticæ cinereæ, fusco obscuratæ, strigis ordinariis^s denticulatis nigris maculisque ordinariis distinctis, macula reniformis margine interno recto; alæ posticæ fuscescentes, albo ciliatæ.

Agrotis detorta, Eversmann, Bull. Soc. Imp. Nat. Mosc. 1851, xxiv. N. 2, 628, 16.

Kiachta, Eastern Siberia.

4. SPÆLOTIS RAVIDA.

Cinereo-fusca; abdomen canum; alæ anticæ lineis transversis undulatis annulisque duobus nigricantibus canescente marginatis; posticæ albidæ, margine cinereo.

———, *Engr. Pap. d'Eur.* 342, d, e; 421.

Noctua ravida, Wien. Verz. 80, 7. *Hübner. Samml. Eur. Schm.*

Noct. f. 126, 600. *God. Hist. Nat. Léop. Fr.* ii. 234, pl. 66.

Frey. Neu. Beit. Schm. iii. pl. 208.

Noctua bigramma, Esp. Schm. iv. pl. 150, f. 2.

Noctua obelisca, View. F. V. ii. 60.

Noctua austera, Esp. Schm. iv. pl. 142, f. 5.

Noctua obducta, Esp. Schm. iv. pl. 142, f. 4.

Noctua obscura, Bork. Eur. Schm. 217. *Brahm.* ii. 191.

Noctua crassa, Haw. Lep. Brit. 220, 171.

Agrotis ravida, Treit. Schm. Eur. i. 207. *Guen. Noct.* i. 300, 493.

Spælotis ravida, Boisd. Ind. Méth. 106, 799. *Steph. Cat. Brit.*

Lep. 69.

Ogygia ravida, Hübner. Verz. Schm. 225, 2255.

Graphiphora crassa, Steph. Ill. Brit. Ent. Haust. ii. 130. *Westw.*

& H. Brit. Moths, i. 127, pl. 25, f. 5.

a—f. England. From Mr. Stephens' collection.

g. England.

h—l. Europe. From M. Becker's collection.

m—p. Trenton Falls, New York. Presented by E. Doubleday, Esq.

q. New York. From Mr. Milne's collection.

r. ——— ?

5. SPÆLOTIS SQUALIDA.

Cinereo-fusca, obscurius signata, linea undulata basim versus obscurius adumbrata, maculis orbiculari et reniformi pallido marginatis.

Spælotis squalida, Boisd. Ind. Méth. 107, 800.

Agrotis squalida, *Guen. Noct. i.* 300, 494.

Agrotis agricola, *Eversm. Faun. Volg-Ural.* 195.

Agrotis Lycaurum, *Herr.-Schæff. Schmett. Eur. ii.* 333, 456; *ii. pl.* 25, f. 122—124.

Dahuria. Sarepta. Ural District.

6. SPÆLOTIS SIBIRICA.

A. Pyrophila affinis; *alæ anticæ cinereo-fuscae, lineis tribus transversis duplicatis undulatis nigris, maculis orbiculari et reniformi magnis nigro marginatis, illa rotunda.*

Spælotis sibirica, *Boisd. Icon. Lép. d' Eur. pl.* 80, f. 6; *Ind. Méth.* 108, 813.

Agrotis sibirica, *Guen. Ann. Soc. Ent. Fr. vi.* 240; *Noct. i.* 301, 495.

Switzerland? Ural District. Siberia.

7. SPÆLOTIS PYROPHILA.

Cinerea; *thorax antice nigro fasciatus*; *alæ anticæ nigricante conspersæ, lituris costalibus, lineis transversis interruptis angulosis aut undulatis nigricantibus, punctis marginalibus nigris, orbiculari et reniformi nigro marginatis, hac nigro signata, illa elliptica*; *posticæ ciliis albidis.*

———, *Engr. Pap. d' Eur.* 342, a—c.

Noctua pyrophila, *Wien. Verz.* 71, 4. *Fabr. Mant. Ins. ii.* 170, 233; *Ent. Syst. iii.* 2, 98, 292. *Bork. Eur. Schmett. iv.* 207, 94. *Hübner. Samml. Eur. Schmett. Noct. 9, f.* 43. *Dup. Hist. Nat. Lép. Fr. vi. pl.* 74, f. 2.

Phalæna-Noctua pyrophila, *Gmel. ed. Syst. Nat. i.* 5, 2575, 1171.

Noctua simulans, *Fabr. Mant. Ins. ii.* 177, 269. *Hübner. Berl. Mag. iii.* 396. *Bork. Eur. Schmett. iv.* 211, 96.

Phalæna-Noctua simulans, *Gmel. ed. Syst. Nat. i.* 5, 2562, 1125.

Noctua tristis, *Fabr. Sp. Ins. ii.* 238, 142; *Mant. Ins. ii.* 180, 287; *Ent. Syst. iii.* 218, 357.

Phalæna-Noctua tristis, *Gmel. ed. Syst. Nat. i.* 5, 2573, 1165.

Noctua radicea, *Esp. Schmett. iv. pl.* 143, f. 1, 2.

Noctua (Agrotis) pyrophila, *Meig. Syst. Besch. iii.* 96, 26, *pl.* 94, f. 7.

Agrotis pyrophila, *Treit. Schmett. v.* 1, 202, 38. *Guen. Noct. i.* 301, 496. *Herr.-Schæff. Schmett. Eur. ii.* 334, 457.

Spælotis pyrophila, *Boisd. Ind. Méth.* 108, 814. *Steph. Cat. Brit. Lep.* 69.

Epipsilia pyrophila, *Hübner. Verz. Schmiett.* 210, 2097.

Graphiphora pyrophila, *Steph. Ill. Brit. Ent. Haust.* ii. 130.
Westw. & H. Brit. Moths, i. 126, pl. 25, f. 4.

a. Scotland. Presented by A. Hepburn, Esq.

b—l. England. From Mr. Stephens' collection.

m—s. Europe. From M. Becker's collection.

t. Lapland.

v, w. Europe. From M. Becker's collection.

x. Nova Scotia. From Lieut. Redman's collection.

8. SPÆLOTIS LUCIPETA.

Cinerea; abdomen testaceum; alæ anticæ fascia media obscuriore, macularum marginibus fasciisque nonnullis transversis undulatis aut angulosis pallide luteis, orbiculari rotunda; posticæ fusco-cinereæ, ciliis testaceis.

———, *Engr. Pap. d'Eur.* 341, a.

Phalæna-Noctua lucipeta, *Gmel. ed. Syst. Nat.* i. 5, 2575, 1170.

Noctua lucipeta, *Wien. Verz.* 71, 2. *Fabr. Mant. Ins.* ii. 169, 232;

Ent. Syst. iii. 2, 98, 291. *Esp. Schmiett.* iv. pl. 120, f. 3.

Bork. Eur. Schmiett. iv. 204, 92. *Hübner. Samml. Eur. Schmiett.*

Noct. pl. 9, f. 41. *God. Hist. Nat. Léop. Fr.* ii. 266, pl. 70.
f. 5.

Agrotis lucipeta, *Treit. Schmiett. Eur.* v. 200, 37. *Guen. Noct.* i. 301, 497.

Spælotis lucipeta, *Boisd. Icon. Léop. d'Eur.* pl. 80, f. 4; *Ind. Méth.* 107, 811.

Rhyacia lucipeta, *Hübner. Verz. Schmiett.* 210, 2094.

Noctua (Agrotis) lucipeta, *Meig. Syst. Besch.* iii. 95, 25, pl. 95, f. 1.

a, b. Europe. From M. Becker's collection.

9. SPÆLOTIS HELVETINA.

Alæ anticæ sericeo-cinereæ strigis duabus maculisque ordinariis pallidis, orbiculari minuta; posticæ cinereo-fusæ; omnium fimbria luteo-cinerascente.

Noctua Helvetina, *Anderreg, Boisd. Ann. Soc. Ent. Fr.* ii. 376, pl. 14, f. 3.

Spælotis Helvetina, *Boisd. Icon. Léop. d'Eur.* pl. 82, f. 4; *Ind. Méth.* 107, 806. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 207, pl.

19. *Herr.-Schæff. Schmiett. Eur.* ii. 334, 458, pl. 3, f. 12—14.

Agrotis Helvetina, *Guen. Noct.* i. 302, 499.

Noctua Livia, *Frey. Beitr.* iii. pl. 201.

Alps of the Valais.

a. Europe. From M. Becker's collection.

10. SPÆLOTIS BIRIVIA.

Cinerea; *alæ anticæ lineis transversis undulatis indistinctis nigricantibus*; *posticæ basi pallidiores, ciliis albis.*

Noctua birivia, *Wien. Verz.* 71, 3. *Hübner. Samml. Eur. Schmett.* Noct. pl. 9, f. 42.

Spælotis birivia, *Boisd. Ind. Méth.* 107, 805. *Herr.-Schæff. Schmett. Eur.* 9, 10.

Agrotis birivia, *Treit. Schmett. Eur.* v. 1, 191, 32. *Dup. Hist. Nat. Léop. Fr.* ii. 267, pl. 70, f. 7. *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 303, 501.

Rhyacia birivia, *Hübner. Verz. Schmett.* 210, 2095.

Noctua (Agrotis) birivia, *Meig. Syst. Besch.* iii. 94, 22, pl. 95, f. 2.

Var. *Alæ anticæ cinereæ, cærulescentes, maculis lineisque albicantibus*; *posticæ albicantes, ad marginem pallide cinereæ, puncto discali concolore.*

Agrotis Honnoratina, *Donzel, Ann. Soc. Ent. Fr.* vi. 474, 3, pl. 18, f. 3, 4.

Agrotis birivia, var. *Honnoratina*, *Guén. Noct.* i. 303.

Agrotis birivia, *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 463, pl. 40, f. 7.

Noctua birivia, *Hübner. Samml. Eur. Schmett.* 631.

a, b. Europe. From M. Becker's collection.

11. SPÆLOTIS DUMETORUM.

Obscure fusca; *abdomen fusco-cinereum*; *alæ anticæ fasciis indistinctis undulatis nigricantibus, maculis distinctis, orbiculari subrotunda*; *posticæ fuscæ, basi pallidiores.*

Noctua dumetorum, *Gey. Samml. Eur. Schmett.* f. 839.

Agrotis dumetorum, *Boisd. Icon. Léop. d'Eur.* pl. 78, f. 5; *Ind. Méth.* 798. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 303, 502.

Digne.

12. SPÆLOTIS GRISESCENS.

Pallide cinerea; alæ anticæ glauco canescentes, lineis transversis undulatis albidis nigro marginatis, macula inter orbicularem et reniformem obscure cinerea, orbiculari et reniformi albidis ex parte nigro marginatis, illa subrotunda; posticæ albidæ, linea discali margineque cinereis.

Noctua grisea, *Fabr. Ent. Syst.* iii. 2, 332.

Agrotis grisea, *Treit. Schmett. Eur.* i. 193. *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 303, 503.

Spælotis grisea, *Boisd. Ind. Méth.* 108, 819. *Herr.-Schæff. Schmett. Eur.* ii. 332, 453; ii. pl. 81, f. 418.

Breslau.

13. SPÆLOTIS GILVA.

Fœm. Alæ anticæ cinereæ rufescentes, maculis duabus lineisque nigricantibus; posticæ albicantes, ad marginem leviter fusæ; antennæ filiformes.

Noctua nebulosa? *Hüb. Samml. Eur. Schmett. Noct.* f. 877. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 461, pl. 40.

Agrotis gilva, *Donzel, Ann. Soc. Ent. Fr.* vi. 473, 2, pl. 18, f. 2. *Boisd. Ind. Méth.* 108, 818. *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 304, 504.

Caradrina gilva, *Herr.-Schæff. Eur. Schmett.* ii. 207, 83; ii. *Noct.* pl. 80, f. 410, 411.

Mimetes nubilosa? *Hüb. Verz. Schmett.* 210, 2102.

Digne.

14. SPÆLOTIS DECORA.

Cana; abdomen albidum; alæ anticæ lineis duabus transversis flexuosis angulosis nigricantibus maculisque tribus intermedii discalibus testaceo-albidis; posticæ albidæ, marginibus cinereis.

Noctua decora, *Wien. Verz. Q.* 4, 5. *Bork. Eur. Schmett.* 308. *Hüb. Samml. Eur. Schmett. Noct.* f. 45.

Agrotis decora, *Treit. Schmett. Eur.* i. 188. *Dup. Hist. Nat. Léop. Fr.* iv. 84, pl. 78. *Herr.-Schæff. Schmett. Eur.* ii. 334, 459. *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 304, 505.

Spælotis decora, *Boisd. Icon. Léop. d'Eur.* pl. 81, f. 2; *Ind. Méth.* 108, 817.

a, b. Europe. From M. Becker's collection.

15. SPÆLOTIS LUCERNEA.

Alæ anticæ obscure cinereæ, saturatiores extus strigis duabus undulatis pallidis, maculis ordinariis subnullis, reniformi in umbram evanescente; posticæ cinereo-plumbeæ, antice pallidæ, subtus dimidiatum albidæ.

Phalæna-Noctua lucerneæ, Linn. *Syst. Nat.* 102; *Faun. Suec.* 1152.

Clerck, pl. f. 7.

Noctua lucerneæ, *Wien. Verz. Ind.* 202.

Graphiphora renigera, *Steph. Ill. Brit. Ent. Haust.* ii. 129. *Westw. and H. Brit. Moths*, i. 126, pl. 25, f. 2, 3.

Noctua Cataleuca, *Boisd. Ann. Soc. Ent. Fr.* ii. 377, pl. 14, f. 2.

Spælotis Cataleuca, *Boisd. Ind. Méth.* 107, 804. *Steph. Cat. Brit. Lep.* 69.

Agrotis lucerneæ, *Guen. Noct.* i. 305, 506.

a—e. England. From Mr. Stephens' collection.

f, g. England.

16. SPÆLOTIS NYCTIMERA.

Pallidissime cervina; thorax antice obscurior; pectus album; abdomen testaceum; alæ anticæ cinereo conspersæ et undulato fasciatæ; posticæ testaceæ, margine lato cinerascete.

Spælotis nyctimera, *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 604, pl. 50. *Bruand, Ann. Soc. Ent. Fr. 2me Sér.* ii. 192, pl. 6, No. 1, C, a, b, larvæ.

Noctua nyctimera, *Geyer, Samml. Eur. Schmett.* 852.

Noctua simulatrix, *Geyer, Samml. Eur. Schmett.* pl. 153, f. 712.

Agrotis nyctimera, *Boisd. Icon. Lép. d'Eur.* pl. 78, f. 1, 2. *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 305, 507.

Spælotis nyctimera, *Boisd. Ind. Méth.* 167, 812. *Herr.-Schæff. Schmett. Eur.* ii. pl. 34, f. 171.

a. Europe. From M. Becker's collection.

17. SPÆLOTIS VALESIAÇA.

Flavescente-testacea; palporum articulus 2us fusco maculatus; antennæ subfiliformes; tarsi annulis nigro-fuscis; alæ anticæ fusco conspersæ, lunulis marginalibus magnis subcontiguis liturisque aliis nigro-fuscis, orbiculari et reniformi concoloribus fusco subdivisis, claviformi subobsoleto; posticæ albæ, venis margineque pallide testaceis.

Spælotis Valesiaca, *Boisd. Icon. Lép. d'Eur.* pl. 78, f. 3; *Ind. Méth.* 107, 807.

Noctua Valesiaca, *Frey. Neu. Beit. Schmett.* iv. pl. 351, f. 3, 4.
Guen. Ann. Soc. Ent. Fr. vi. 240; *Noct.* i. 306, 508. *Herr.-Schæff. Schmett. Eur.* ii. 334, 460, pl. 17, f. 80.

Agrotis Valesiaca, *Eversm. Faun. Volg-Ural.* 611.

Valais, Switzerland. South Russia.

Var.? *Cana*; *alæ anticæ lituris costalibus, striga discali lineisque transversis undulatis nigricantibus; posticæ cinereæ.*

Agrotis Vallesiaca, *Stainton, Entomologist's Annual.*

Agrotis Ashworthii, *H. Doubleday.*

Wales.

18. SPÆLOTIS CONFUSA.

Pallide testaceo cinerascens; alæ anticæ subcervinæ, nigricante conspersæ cinereo subnebulosæ, macula discali, guttis costalibus strigulisque transversis marginalibus nigricantibus; posticæ margine lato nigricante.

Noctua confusa, *Frey. Neu. Beit. Schmett.* iv. pl. 303, f. 1.

Spælotis confusa, *Boisd. Ind. Méth.* 107, 809. *Herr.-Schæff. Schmett. Eur.* ii. pl. 9, f. 44, 45.

Agrotis confusa, *Eversm. Faun. Volg-Ural.* 206. *Guén. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 306, 509.

a, b. Europe. From M. Becker's collection.

19. SPÆLOTIS LATENS.

Pallide murina; abdomen murino-albidum; alæ anticæ atomis, lineis transversis denticulatis punctisque marginalibus nigricantibus; posticæ murino-albidæ, marginibus cinereis.

Noctua latens, *Hüb. Samml. Eur. Schmett. Noct.* f. 419. *Dup. Hist. Nat. Léop. Fr.* iii. 29, pl. 73. *Frey. Neu. Beit. Schmett.* iii. pl. 219.

Spælotis latens, *Boisd. Icon. Léop. d'Eur.* pl. 80, f. 2; *Ind. Méth.* 108, 816.

Agrotis latens, *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 307, 510. *Herr.-Schæff. Schmett. Eur.* ii. 332, 454.

Epipsilia latens, *Hüb. Verz. Schmett.* 210, 2096.

Noctua candelisequa, *Hüb. Eur. Schmett. Noct.* f. 493.

Noctua ignicola, *Hüb. Eur. Schmett. Noct.* f. 546. *God. Hist. Nat. Léop. Fr.* iii. 14, pl. 72, f. 3.

a—c. Europe. From M. Becker's collection.

Var. β . *Alæ anticæ lineis transversis obscurioribus, bene determinatis.*

Cape.

20. SPÆLOTIS LATITANS.

Albido-flavescens; antennæ subcrenulatæ, anticæ lineis transversis nigricantibus sæpe confusis, medianis duabus duplicatis undulatis, orbiculari et reniformi concoloribus litura nigra divisis, claviformi obsoleta; posticæ pallide fuscæ, ciliis albidis.

Noctua latens, *Boisd. Icon. Lép. d'Eur.* pl. 80, f. 1. *Gey. Samml. Eur. Schmett.* 806, 807 ??

Noctua murina, *Frey. Neu. Beit. Schmett.* iv. pl. 364, f. 1 ?

Agrotis latitans, *Guen. Noct.* i. 308, 511.

Valais, Switzerland.

21. SPÆLOTIS FIMBRIOLA.

Murina; alæ apud margines obscuriores, anticæ ocellis duobus discalibus (exteriore magno) fasciisque tribus angustis duplicatis undulatis guttisque basalibus et costalibus nigris.

———, *Engr. Pap. d'Eur.* 450, a.

Noctua fimbriola, *Esp. Schmett.* pl. 193, f. 3. *Hübner. Samml. Eur. Schmett. Noct.* f. 603. *Dup. Hist. Nat. Lép. Fr.* iii. 33, pl. 74. *Frey. Neu. Beit. Schmett.* iii. pl. 207.

Spælotis fimbriola, *Boisd. Icon. Lép. d'Eur.* pl. 81, f. 4; *Ind. Méth.* 107, 810.

Agrotis fimbriola, *Treit. Schmett. Eur.* i. 190. *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 308, 512.‡

Epipsilia fimbriola, *Hübner. Verz. Schmett.* 210, 2100.

a, b. Europe. From M. Becker's collection.

South America.

22. SPÆLOTIS SUBSIGNATA.

Mas. Cinerea; antennæ ciliatæ; thorax antice nigro fasciatus; abdomen canum; alæ anticæ fusco subconspersæ, lituris costalibus lunulisque marginalibus nigris, lineis nonnullis transversis undulatis nigricantibus, maculis nigro marginatis, claviformi subobsoleta, orbiculari alba subrotunda, reniformi magna lata; posticæ albidæ, venis margineque fuscis.

Var. β . *Thorax non fasciatus ; alæ anticæ lineis confusis, maculis indistinctis, orbiculari fusco conspersa.*

Male. Cinereous. Antennæ ciliated. Thorax with a black band in front. Abdomen hoary. Fore wings speckled with brown, with black marks along the costa, with black marginal lunules, and with several blackish transverse undulating lines ; spots with black borders ; claviform almost obsolete ; orbicular white, almost round, rather less than half the size of the reniform, which is large and broad, and of the usual shape. Hind wings whitish, with brown veins and borders. Length of the body 7 lines ; of the wings 16 lines.

a. Santa Fé de Bogotà. From Mr. Isaacson's collection.

Var. β . Thorax without a black band. Fore wings with the lines more confused ; spots more indistinct ; orbicular speckled with brown.

b. Venezuela. From Mr. Dyson's collection.

Africa.

23. SPÆLOTIS PHOTOPHILA.

A. *Lucipetæ affinis ; alæ anticæ obscuriores, magis cinereæ, minus flavescentes, lineis paucioribus pallidioribus, maculis indistinctis ; posticæ magis albæ.*

Agrotis Photophila, Guen. Noct. i. 302, 498.

Algeria.

Asia.

24. SPÆLOTIS INDIANA.

Mas. *Fusco-cinerea ; antennæ pubescentes ; alæ anticæ oblongæ, subdenticulatæ, nitentes, lineis duabus medianis et macularum marginibus nigricantibus, fasciis undulatis, orbiculari rotundata, reniformi incompleta ; posticæ paullo pallidiores.*

Agrotis Indiana, Guen. Noct. i. 302, 500.

Hindustan.

Genus 7. CHERSOTIS.

Corpus robustum. Proboscis longiuscula. Palpi validi, pilosi, porrecti; articulus 3us minimus. Antennæ corporis dimidio multo longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ lituris bene determinatis, apud costam rectæ, apice subrotundatæ, margine exteriori vix aut paullo obliquo. *Mas.*—Antennæ subcrenulatæ.

Chersotis, p., *Boisd. Ind. Méth.* 103.

Agrotis, p., *Guen. Noct.* i. 309.

Metaxya, p., *Hüb. Verz. Schmett.* 223.

Hadena, p., *Boisd. Ind. Méth.* 119.

Body stout. Proboscis rather long. Palpi stout, pilose, porrect; third joint very minute, not one fourth of the length of the second. Antennæ much more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings with very distinct markings, straight in front, somewhat rounded at the tips, slightly or hardly oblique along the exterior border. *Male.*—Antennæ minutely crenulate.

Europe.

A. Alæ anticæ venis pallidioribus.

A. Alæ posticæ *maris* albæ. - - - grammiptera, *Dup.*

B. Alæ posticæ *maris* cineræ. - - - Alpestris, *Boisd.*

C. Alæ posticæ fusæ. - - - ocellina, *Wien. Verz.*

D. Alæ posticæ nigricantes. - - - larixia, *Guen.*

B. Alæ anticæ venis non pallidioribus.

A. Alæ anticæ fasciis distinctis.

A. Alæ anticæ apices versus nigricantes. multangula, *Hüb.*

B. Alæ anticæ apices versus non nigricantes.

deplana, *Herr.-Schæff.*

B. Alæ anticæ fasciis interruptis. - - - rectangula, *Wien. Verz.*

C. Alæ anticæ fasciis obsoletis. - - - Anderregii, *Boisd.*

1. CHERSOTIS ALPESTRIS.

Cinereo-fusca; abdomen pallide fuscens; alæ anticæ vittulis anticis strigisque exterioribus lanceolatis nigricantibus, lineis duabus transversis undulatis, strigis lanceolatis, ocellis duobus discalibus (exteriore elongato flexo) venisque sordide albidis; posticæ fusæ, ciliis pallidioribus.

Chersotis alpestris, *Boisd. Icon. Lép. d'Eur.* pl. 76, f. 4, 5; *Ind. Méth.* 103, 768. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 454, pl. 40. *Herr.-Schæff. Schmiett. Eur.* ii. pl. 1, f. 5, 6.

Agrotis alpestris, *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 309, 513.

a, b. Europe. From M. Becker's collection.

2. CHERSOTIS OCELLINA.

Obscure fusca; alæ anticæ venis, lineis duabus transversis et macularum marginibus cinereis, strigis exterioribus nigricantibus, maculis reniformi et orbiculari cinereo pupillatis, hac rotunda, illa angusta; posticæ cinereo ciliatæ.

—————, *Engr. Pap. d'Eur.* 420, a, b.

Noctua ocellina, *Wien. Verz.* 313, 16, 17. *Hübner. Samml. Eur. Schmiett. Noct.* pl. 27, f. 129; pl. 93, f. 439. *God. Hist. Nat. Lép. Fr.* v. 221, pl. 63, f. 1?

Noctua Phyteumæ, *Esp. Schmiett.* iv. pl. 192, f. 3, 4.

Metaxya ocellina, *Hübner. Verz. Schmiett.* 223, 2239.

Agrotis ocellina, *Treit. Schmiett. Eur.* v. 1, 129, 3. *Guén. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 309, 514.

Chersotis ocellina, *Boisd. Icon. Lép. d'Eur.* pl. 76, f. 3; *Ind. Méth.* 103, 767.

Noctua (Agrotis) ocellina, *Meig. Syst. Besch.* iii. 83, 2, pl. 95, f. 6.

a. Europe. From M. Becker's collection.

3. CHERSOTIS GRAMMIPTERA.

Subpurpurascens-fusca; thorax lineis transversis biarcuatis nigris albidisque; abdomen albidum, apice subtestaceum; alæ anticæ guttis costalibus, lineis transversis, ocellis duobus anguloque acuto discalibus albidis nigro marginatis, lineolis lanceolatis exterioribus nigris, linea transversa submarginata albida; posticæ maris albidæ, fœm. cinereæ.

Hadena grammiptera, *Boisd. Ind. Méth.* 119, 933.

Agrotis grammiptera, *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 450, pl. 40, f. 1. *Guén. Ann. Soc. Ent. Fr.* vi. 241; *Noct.* i. 309, 515. *Herr.-Schæff. Schmiett. Eur.* ii. pl. 1, f. 3, 4.

Noctua cancellata, *Frey. Neu. Beit. Schmiett.* iv. pl. 303, f. 2.

Hadena elegans, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1837, 1; *Faun. Volg-Ural.* 187.

a. Europe. From M. Becker's collection.

4. CHERSOTIS LARIXIA.

A. grammiptera affinis, at major magisque oblonga; alæ anticæ flavescence-cinereæ, lineis transversis minus determinatis minusque nigro marginatis, maculis orbiculari et reniformi plus indistinctis nigro divisis cinereoque pupillatis, reniformi brevioribus minus arctata, strigis lanceolatis submarginalibus minus conspicuis, linea marginali ochracea; posticæ nigricantes, ciliis albis.

Agrotis larixia, Guen. *Noct.* i. 310, 516.

French Alps.

5. CHERSOTIS MULTANGULA.

Fusca; palpi basi antennæque nigra; abdomen cinereum; pedes nigro varii; tarsi nigri, cinereo fasciati; alæ anticæ maculis subquadratis discalibus lineisque transversis undulatis nigris, apices versus nigricantes linea transversa angulosa fusciscentibus; posticæ pallide cinereæ marginibus latis obscurioribus.

Noctua multangula, Hübn. *Samml. Eur. Schm.* 116. *God. Hist. Nat. Léop. Fr.* v. 207, pl. 63, f. 6. *Frey. Neu. Beit. Schm.* iv. pl. 339.

Agrotis multangula, Treit. *Schm.* *Eur.* v. 1, 127, 2. *Guen. Ann. Soc. Ent. Fr.* vi. 240; *Noct.* i. 311, 517.

Chersotis multangula, Boisd. *Icon Léop. d'Eur.* [pl. 76, f. 2; *Ind. Méth.* 103, 766.

Epipsilia multangula, Hübn. *Verz. Schm.* 210, 2099.

Noctua (Agrotis) multangula, Meig. *Syst. Besch.* iii. 82, 1, pl. 92, f. 6.

a—g. Europe. From M. Becker's collection.

6. CHERSOTIS RECTANGULA.

Canescens; thorax fusco varius, fascia antica nigra; alæ anticæ fusco conspersæ, maculis costalibus et basalibus, striga discali fasciis interruptis lunulisque marginalibus nigris, macula claviformi fusiformi, orbiculari rotunda, reniformi sublunata; posticæ cinereæ, ciliis albis.

Noctua rectangula, Wien. *Verz. M.* 15. *Fabr. Ent. Syst.* iii. 2, 187. *Bork. Eur. Schm.* iv. 205. *Hübn. Eur. Schm.* *Noct.* f. 110. *God. Hist. Nat. Léop. Fr.* ii. 248, pl. 68, f. 2.

Agrotis rectangula, *Treit. Schmett.* i. 126.

Chersotis rectangula, *Boisd. Ind. Méth.* 103, 765. *Guen. Noct.* i. 311, 518.

a—c. Europe. From M. Becker's collection.

7. CHERSOTIS ANDERREGGII.

Ferruginea ; abdomen testaceum ; thorax fascia antica interrupta nigra ; abdomen pallide cinereum ; alæ anticæ maculis costalibus unaque basali nigris, claviformi elongata albido ex parte marginata, orbiculari et reniformi margine albido connexis macula nigra divisus ; posticæ cinereæ, basi pallidiores.

Agrotis Anderreggii, *Boisd. Icon. Lép. d'Eur.* pl. 76, f. 6. *Guen. Noct.* i. 312, 519.

Agrotis rectangula, var., *Boisd. Ind. Méth.* 103, 765. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 456, pl. 40, f. 3. *Eversm. Faun. Volg-Ural.* 187. *Guen. Ann. Soc. Ent. Fr.* vi. 240.

Agrotis exclamans, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1841, pl. 3, f. 5, 6.

Switzerland.

a. Europe. From M. Becker's collection.

8. CHERSOTIS DEPLANA.

Mas. *Cinerea* ; antennæ pubescentes ; thorax antice niger ; alæ anticæ maculis discalibus nigris, lineis medianis remotis arcuatis, exteriore fusco bene determinato, striga atra interrupta discali, orbiculari et reniformi magnis fusco cinereis ; posticæ ochraceo-cinereæ, margine nigricante.

Agrotis deplana, *Herr.-Schæff. Schmett. Eur.* ii. pl. f. 79. *Guen. Noct.* i. 312, 520.

South Russia.

North America.

9. CHERSOTIS QUADRANGULA.

Thorax immaculatus ; alæ anticæ cinereo-fusæ, fascia postica obscuriore, maculisque parvis irregularibus sparsis unaque in medio quadrata distincta nigris ; posticæ fusæ.

Agrotis quadrangula, *Zett. Ins. Lapp.* 935, 4.

Greenland.

Africa.

10. CHERSOTIS SEPARATA.

Rufo-fusca ; frontis fasciculus et thorax antice nigri, lineis medianis parallelis valde remotis e lunulis nigricantibus, striga discali interrupta atra flavescente lineato, claviformi nulla, orbiculari et reniformi subæqualibus non marginatis, ciliis flavo lineatis ; posticæ sordide albæ, venis margineque subfuscescentibus.

Agrotis separata, Guen. Noct. i. 313, 521.

Abyssinia.

Genus 8. OPIGENA.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, porrecti, pilosi ; articulus 3us conicus, brevissimus. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas perpaullo superans. Pedes validi ; tibiæ anticæ breves ; posticæ calcaribus quatuor longis. Alæ mediocriter latæ ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subconvexo vix obliquo.

Opigena, Boisd. Ind. Méth. 103.

Noctua, p., Treit.

Agrotis, p., Guen. Noct. i. 313.

Metaxya, p., Hübn. Verz. Schmett. 223.

Body stout. Proboscis moderately long. Palpi stout, porrect, pilose ; third joint conical, not more than one-fourth of the length of the second. Antennæ simple in both sexes, much more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs stout ; fore tibiæ short ; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, slightly convex and hardly oblique along the exterior border.

1. OPIGENA POLYGONA.

Cervina ; thorax fusco fasciatus et bivittatus, fasciculis duobus posticis albidis ; abdomen cinereo-albidum ; alæ anticæ basi plaga discali liturisque costalibus nigro-fuscis, lineis transversis undulatis nigris, ocellis duobus nigro marginatis, fasciis duabus exterioribus ferrugineis ; posticæ albidæ marginibus subcinereis.

- , *Engr. Pap. d' Eur.* 423, a.
Noctua polygona, *Wien. Verz. M.* 16. *Fabr. Ent. Syst.* iii. 2, 333.
Hüb. Samml. Eur. Schm. *Noct.* f. 125. *God. Hist. Nat.*
Lép. Fr. ii. 245, pl. 68.
Noctua nigrofulva, *Esp. Schm.* iv. pl. 127, f. 7.
Noctua pyramis, *Bork. Eur. Schm.* iv. 197.
Agrotis polygona, *Treit. Schm.* *Eur.* i. 226. *Guen. Noct.* i. 313,
 522.
Metaxya polygona, *Hüb. Verz. Schm.* 223, 2241.
Opigena polygona, *Boisd. Ind. Méth.* 103, 764.
a—d. Europe. From M. Becker's collection.

Genus 9. EPILECTA.

Corpus vix robustum. Proboscis mediocriter longa. Palpi porrecti, validi, caput longe superantes; articulus 3us lanceolatus, 2i dimidio vix brevior. Antennæ simplices, graciles, corporis dimidio multo longiores. Abdomen alas posticas superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ latiusculæ, apud costam fere rectæ, margine exteriori subdenticulato subconvexo vix obliquo.

Epilecta, *Hüb. Verz. Schm.* 221.
Triphæna, p., *Treit.*; *Boisd.*; *Meig.*
Hiria, *Dup. Cat.* 145. *Guen. Noct.* i. 314.

Body hardly stout. Proboscis moderately long. Palpi porrect, stout, extending far beyond the head; third joint lanceolate, almost half the length of the second. Antennæ simple, slender, much more than half the length of the body. Abdomen extending somewhat beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings somewhat broad. Fore wings almost straight in front, slightly denticulated and convex, and hardly oblique along the exterior border; first, second and third inferior veins nearly contiguous; fourth remote.

Epilecta differs much from the other genera in this family, and seems to connect them with the *Catocalidæ*.

1. EPILECTA LINOGRISEA.

Cinerea; thorax fasciis vittisque duabus nigris, disco cervino; alæ anticæ ferrugineo albidoque variæ, lineis transversis undulatis annulisque duobus nigris, fascia tenui submarginali cervina; posticæ luteæ, nigro marginatæ.

———, *Engr. Pap. d' Eur.* 436, a—c.

Noctua linogrisea, *Wien. Verz.* 79, 22. *Fabr. Mant. Ins.* ii. 151, 118; *Ent. Syst.* iii. 2, 58, 160. *Esp. Schmett.* iv. pl. 108, f. 3. *Bork. Eur. Schmett.* iv. 116, 46. *Kléem, Beit. Ins. Gesch.* ii. pl. 7, f. 4, 5. *Hüb. Samml. Eur. Schmett. Noct.* pl. 21, f. 101; pl. 114, f. 531; *Larv. Lep.* iv. *Noct.* ii. *Gen.* G, b, f. 1, a. *God. Hist. Nat. Léop. Fr.* v. 149, pl. 57, f. 5.

Triphæna linogrisea, *Treit. Schmett. Eur.* v. 1, 272, 8. *Boisd. Ind. Méth.* 102, 756. *Guen. Ann. Soc. Ent. Fr.* vi. 239.

Phalæna (*Noctua*) *linogrisea*, *Gmel. ed. Syst. Nat.* i. 5, 2538, 1010.

Epilecta linogrisea, *Hüb. Verz. Schmett.* 221, 2209.

Hiria linogrisea, *Dup. Cat.* 145. *Guen. Noct.* i. 314, 523.

Tryphæna linogrisea, *Meig. Syst. Besch.* iii. 81, 6, pl. 96, f. 7; *Handb.* 158, 26, pl. 12, f. 8.

a—c. Europe. From M. Becker's collection.

d. France.

Genus 10. TRIPHÆNA.

Corpus robustum. Proboscis longiuscula. Palpi validi, pilosi, subascendentes; articulus 3us conicus, minimus. Antennæ simplices, corporis dimidio longiores. Abdomen latum, depressum, alas posticas paullo superans. Pedes validi, longiusculi; tibiæ anticæ breves; posticæ calcaribus quatuor longissimis. Alæ medio-criter latæ; anticæ apud costam rectæ, apice subangulatæ, margine exteriori subconvexo vix obliquo; posticæ luteæ, nigro marginatæ.

Triphæna, *Ochs. Syst. Gloss. Schmett. von Eur.* iv.; *Treit.*; *Boisd.*; *Dup.*; *Steph.*; *Guen. Ann. Soc. Ent. Fr.* vi. 565; *Noct.* i. 315.

Triphæna, *Lampra et Euschesis*, *Hüb. Verz. Schmett.* 221.

Body very stout. Proboscis rather long. Palpi stout, pilose, slightly ascending; third joint conical, very minute, less than one-sixth of the length of the second. Antennæ simple in both sexes, rather more than half the length of the body. Abdomen broad, flat, extending a little beyond the hind wings. Legs stout, rather long; fore tibiæ short; hind tibiæ with four very long spurs. Wings moderately broad. Fore wings straight in front, somewhat angular at the tips, slightly convex and very slightly oblique along the exterior border. Hind wings luteous, with black borders.

A. Alæ posticæ margine nigro latissimo.

A. Statura major. - - - - - fimbria, Linn.

B. Statura minor.

A. Alæ anticæ cinereo-fuscæ. - - - - - janthina, Wien. Verz.

B. Alæ anticæ rufescentes. - - - - - interjecta, Hübn.

B. Alæ posticæ margine nigro sat lato aut sat angusto.

A. Alæ posticæ macula nulla discali. - - - - - pronuba, Linn.

B. Alæ posticæ macula discali.

A. Alæ anticæ macula nulla subapicali. - - - - - orbona, Fabr.

B. Alæ anticæ macula costali subapicali. subsequa, Wien. Verz.

1. TRIPHÆNA FIMBRIA.

Pallide cervina; abdomen luteum; alæ anticæ annulis duobus lineisque duobus transversis exterioribus canis striga obliqua interiore fasciæque media viridescens, puncto subapicali subcostali nigro; posticæ luteæ, nigro latissime marginatæ.

———, *Engr. Pap. d'Eur.* 432, a, b, g, h. *Schreb. Ins.* 12, f. 9. *Kühn, Naturf.* 9, pl. 1, f. 3.

Phalæna-Noctua fimbria, Linn. *Syst. Nat.* ii. 842, 123. *Gmel. ed. Syst. Nat.* i. 5, 2539, 123. *Stew. El. Nat. Hist.* ii. 183. *Turt. Syst. Nat.* iii. 296.

Noctua fimbria, Wien. Verz. 78, 18. *Fabr. Sp. Ins.* ii. 223, 76; *Mant. Ins.* ii. 151, 123; *Ent. Syst.* iii. 259, 165. *Klém., Beit. Ins. Gesch.* i. pl. 48. *Esp. Schmett.* iv. pl. 103, f. 1. *Bork. Eur. Schmett.* iv. 104, 41. *Donov. Nat. Hist. Brit. Ins.* vi. 69, pl. 208. *Hübn. Samml. Eur. Schmett. Noct.* pl. 22, f. 102; pl. 119, f. 551, 552; *Larv. Lep.* iv. *Noct.* ii. *Gen. G.* b, f. 1, a. *Panz. Faun. Germ.* xii. 17, 18. *God. Hist. Nat. Lép. Fr.* v. pl. 60, f. 1, 2. *Haw. Lep. Brit.* 161.

Noctua Solani, Fabr. *Mant. Ins.* ii. 150, 117; *Ent. Syst.* iii. 59.

Phalæna domiduca, Hufnagle, Berl. Mag. iii. 404.

Phalæna-Noctua Solani, Gmel. ed. *Syst. Nat.* i. 5, 2538, 1009.

Lampra fimbria, Hübn. Verz. *Schmett.* 221, 2215.

Triphæna fimbria, Treit. *Schmett.* v. 1, 266, 6. *Steph. Ill. Brit. Ent. Haust.* ii. 105, 5. *Westw. & H. Brit. Moths.* i. 108, pl. 21, f. 6, 7. *Boisd. Ind. Méth.* 102, 760. *Guen. Noct.* i. 318, 526. *Herr.-Schæff. Schmett. Eur.* i. 328, 440.

Tryphæna fimbria, Meig. *Syst. Besch.* iii. 781, pl. 96, f. 2; *Handb.* 157, 25, pl. 12, f. 7.

a—m. England. From Mr. Stephens' collection.

n. England. From Mr. Foxcroft's collection.

o—t. England.

v—x. Europe. From M. Becker's collection.

y. Europe. From Mr Milne's collection.

2. TRIPHÆNA PRONUBA.

Alæ anticæ obscuræ, coloribus variæ, macula costali subapicali nigra, orbiculari et reniformi magnis; posticæ luteæ, margine nigro.

———, *Göed. Ins.* i. pl. 14. *List. Göed. (Angl.)* 52, f. 41. (Lat.) 114, f. 41. *Rai, Ins.* 137, 18. *Albin, Nat. Hist. Engl. Ins.* pl. 72, f. a—d. *Wilkes*, pl. 9, f. 7. *Harr. Aur.* pl. 39, f. d—f. *Exp.* 21, pl. 5, f. 2. *Roës. Ins. Bel.* iv. pl. 32. *Réaum. Ins.* i. pl. 41, f. 4; ii. pl. 14, f. 189. *Geoff. Ins. Par.* ii. 146, 76. *Blank. Ins.* pl. 6, f. D, E. *Deg. Ins.* i. pl. 5, f. 17, 18; ii. 399, 1. *Schæff. Icon.* ii. pl. 196, f. 1, 2. *Engr. Pap. d'Eur.* 434, a—d. *Frisch. Ins.* 10, pl. 15, f. 4. *Merian. Ins. Eur.* pl. 49. *Ammir.* pl. 8.

Phalæna-Noctua pronuba, *Linn. Syst. Nat.* ii. 842, 121; *Faun. Suec.* 1167. *Scop. Ent. Carn.* 518. *Gmel. ed. Syst. Nat.* i. 5, 2537, 121. *Berk. Syn. Nat. Hist. Brit.* i. 141. *Stew. Elem. Nat. Hist.* ii. 183. *Turt. Syst. Nat.* iii. 295. *Scop. Ent. Carn.* 518.

Noctua pronuba, *Wien. Verz.* 79, 20. *Fabr. Sp. Ins.* ii. 221, 73; *Mant. Ins.* ii. 150, 115; *Ent. Syst.* iii. 2, 56, 155. *Esp. Schm.* iv. pl. 102, f. 1. *Bork. Eur. Schm.* iv. 97, 39. *Donov. Nat. Brit. Ins.* ix. 49, pl. 311. *Haw. Lep. Brit.* 160. *Hübner. Samml. Eur. Schmett. Noct.* pl. 22, f. 103; *Larv. Lep.* iv. *Noct.* ii. *Gen. G.* b, f. g, 2 a, b. *God. Léop. Fr.* v. pl. 58.

Tryphæna innuba, *Meig. Handb.* 157, 24.

Tryphæna pronuba, *Meig. Syst. Besch.* iii. 79, 2, pl. 96, f. 1, a, b; *Handb.* 156, 23.

Triphæna pronuba, *Hübner. Verz. Schmett.* 221, 2214. *Treit. Schmett.* v. 1, 260, 4. *Steph. Ill. Brit. Ent. Haust.* ii. 103, 2. *Boisd. Ind. Méth.* 102, 763. *Guen. Noct.* i. 320, 530. *Westw. & H. Brit. Moths*, i. 108, pl. 21, f. 1—3.

Var. *Triphæna innuba*, *Ochs. Treits*, v. 265, 5. *Steph. Ill. Brit. Ent. Haust.* ii. 104, 4.

a. England. Presented by W. Wing, Esq.

b—aa. England. From Mr. Stephens' collection.

bb—ff. England.

gg—jj. Europe. From M. Becker's collection.

kk. Europe. From Dr. Leach's collection.

3. TRIPHÆNA ORBONA.

Cinereo-cervina aut ochracea ; alæ anticæ orbiculari et reniformi magnis ; posticæ luteæ, lunula discali margineque nigris.

Noctua orbona, *Fabr. Mant. Ins.* ii. 150, 116; *Ent. Syst.* iii. 57, 158. *Haw. Lep. Brit.* 161. *Donov. Nat. Hist. Brit. Ins.* x. 36, pl. 343, f. 2. *God. Hist. Nat. Lép. Fr.* v. pl. 59, f. 2—5.

Noctua comes, *Hübner. Eur. Schmett. Noct.* pl. 111, f. 521; *Larv. Lep.* iv. *Noct.* ii. *Gen. G.* b f. 1, a.

Noctua subsequa, *Esp. Schmett. Beschreib.* iv. pl. 104, f. 1—3. *Bork. Eur. Schmett.* iv. 102, 40. *Haw. Lep. Brit.* 161.

Noctua pronuba minor, *Vill. Ent. Linn.* ii. 279.

Phalæna (Noctua) orbona, *Gmel. ed. Syst. Nat.* i. 5, 2538, 1008.

Triphæna orbona, *Steph. Ill. Brit. Ent. Haust.* ii. 102, 1. *Boisd. Ind. Méth.* 102, 761. *Guen. Noct.* i. 319, 529. *Westw. & H. Brit. Moths*, i. 108, pl. 21, f. 1. *Herr.-Schæff. Schmett. Eur.* i. 328, 444.

Triphæna comes, *Hübner. Verz. Schmett.* 221, 2212. *Treit. Schmett.* 254, 3.

Tryphæna comes, *Meig. Handb.* 156, 22.

Tryphæna subsequa, *Meig. Syst. Besch.* iii. 79, 3, pl. 96, f. 3, 4.

Var. Triphæna consequa, *Curt. Brit. Ent.* viii. pl. 348.

Triphæna Curtisii, *Newm. Zool.* ii. 399.

a—d. England. Presented by H. Doubleday, Esq.

e—w. England. From Mr. Stephens' collection.

x, y. England.

z—aa. Europe. From M. Becker's collection.

bb, cc. Europe. From Mr. Milne's collection.

4. TRIPHÆNA SUBSEQUA.

Cervino-cinerea ; abdomen subcervinum ; alæ anticæ nigro conpersæ ocellis duobus discalibus testaceis nigro marginatis, lineis duabus transversis undulosis exterioribus fuscis, guttis duabus costalibus maculaque subcostali subapicali nigris ; posticæ luteæ, lunula discali fasciaque submarginali atris.

Noctua subsequa, *Wien. Verz.* 79, 21. *Hübner. Eur. Schmett. Noct.* pl. 23, f. 106.

Noctua consequa, *Hübner. Eur. Schmett. Noct.* pl. 23, f. 105.

Triphæna subsequa, *Hübner. Verz. Schmett.* 221, 2211. *Treit. Schm.* 258, 3. *Steph. Ill. Brit. Ent. Haust.* ii. 103, 2. *Boisd. Ind. Méth.* 102, 662. *Guen. Noct.* i. 319, 528. *Herr.-Schæff. Schmett. Eur.* ii. 329, 445.

Triphæna consequa, *Hübner. Verz. Schmett.* 221, 2213.

a. England (New Forest). From Mr. Turner's collection.

b, c. England.

d. Europe. From M. Becker's collection.

e. Europe.

5. TRIPHÆNA INTERJECTA.

Testaceo-fulva; *alæ anticæ lineis transversis subobsoletis obscurioribus, ciliis nigricantibus*; *posticæ luteæ, nigro late marginatæ.*

Noctua interjecta, *Hübner. Samml. Eur. Schmett. Noct.* pl. 23, f. 107. *Haw. Lep. Brit.* 162. *Ochs. Schmett. von Eur.* iv. 69. *God. Hist. Nat. Léop. Fr.* v. 154, pl. 59, f. 1.

Triphæna interjecta, *Hübner. Verz. Schmett.* 221, 2210. *Treit. Schmett. Eur.* v. 1, 253, 1. *Steph. Ill. Brit. Ent. Haust.* ii. 105, 6. *Frey. Neu. Beit. Schmett.* iii. pl. 292. *Boisd. Ind. Méth.* 102, 758. *Herr.-Schæff. Schmett. Eur.* ii. 328, 443. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 318, 527. *Westw. & H. Brit. Moths*, i. 109, pl. 21, f. 8.

Tryphæna interjecta, *Meig. Syst. Besch.* iii. 80, pl. 96, f. 5.

a—g. England. From Mr. Stephens' collection.

h—l. England.

m, n. Europe. From M. Becker's collection.

o, p. Europe. From Mr. Milne's collection.

6. TRIPHÆNA JANTHINA.

Fusco-ferruginea; *caput, thorax anticus et pectus viridescencia*; *proboscis albida*; *antennæ subtus fulvescentes*; *alæ anticæ annulis duobus albidis, costa ex parte fasciisque duabus exterioribus canis*; *posticæ luteæ, basi fuscæ, margine lato nigro.*

———, *Geoff. Ins. Par.* ii. 148. *Engl. Pap. d'Eur.* 433, a—f.

Noctua janthina, *Wien. Verz.* 78, 19. *Fabr. Mant. Ins.* ii. 152, 124; *Ent. Syst.* iii. 2, 59, 166. *Esp. Schmett.* iv. pl. 104, f. 4, 5. *Bork. Eur. Schmett.* iv. 109, 42. *Haw. Lep. Brit.* 7. *Hübner. Samml. Eur. Schmett. Noct.* pl. 21, 100. *Donov. Nat. Hist. Brit. Ins.* pl. 343. *God. Hist. Nat. Léop. Fr.* v. pl. 59, f. 6.

- Noctua domiduca*, *Knock, Beit. Ins.* i. 63, pl. 4, f. 5. *Fuessl. Mag Ent.* iii. pl. 16.
- Triphæna janthina*, *Treit. Schmett. Eur.* v. 1, 269, 7. *God. Hist. Nat. Lép. Fr.* ii. 160, pl. 59. *Boisd. Ind. Méth.* 102, 759. *Guen. Noct.* i. 317, 525. *Steph. Ill. Brit. Ent. Haust.* ii. 106. *Westw. & H. Brit. Moths*, i. 109, pl. 21, f. 9. *Herr.-Schæff. Schmett. Eur.* ii. 328, 441.
- Euschesia janthina*, *Hübner. Verz. Schmett.* 221, 2216.
- Tryphæna janthina*, *Meig. Syst. Besch.* iii. 80, 5, pl. 96, f. 6.
- a—d.* England. Presented by H. Doubleday, Esq.
- e—o.* England. From Mr. Stephens' collection.
- p. q.* England. From Mr. Foxcroft's collection.
- r.* England.
- s—w.* Europe. From Mr. Becker's collection.

Genus 11. GRAPHIPHORA.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, porrecti, pilosi; articulus 2us 3o triplo aut quadruplo longior; 3us cylindricus aut conicus. Antennæ corporis dimidio longiores aut multo longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam vix convexæ, apice subrotundatæ, margine exteriori subconvexo vix obliquo. *Mas.*—Antennæ simplices, crenulatæ, aut subpectinatæ.

Noctua, *Guen. Ann. Soc. Ent. Fr.* vi. 361; *Noct.* i. 321.

Caradrina, p., *Treit.*; *Meig.*

Noctua, p., et *Graphiphora*, *Ochs.*; *Treit.*; *Steph.*

Eugraphe, *Megasema*, *Exarnis*, *Diarsia*, *Euxoa*, *Amathes*, et *Caradrina*, p., *Hübner. Verz. Schmett.*

Agrotis, p., *Polia*, p., et *Orthosia*, p., *Herr.-Schæff.*

Noctua, *Spælotis*, p., *Chersotis*, p., et *Orthosia*, p., *Boisd. Ind. Méth.*

Cænophila, *Steph.*

Lytæa, p., *Steph.*

Segetia, p., *Steph.*

Body stout. Proboscis moderately long. Palpi stout, porrect, pilose; third joint cylindrical or conical, one-third or one-fourth of the length of the second. Antennæ more or much more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings

moderately broad. Fore wings hardly convex in front; apical angle somewhat rounded; exterior border slightly convex, very slightly oblique. *Male*.—Antennæ simple, crenulate, or slightly pectinated.

Europe.

Group 1.

Color cinereus. Alæ anticæ lituris nigris plus minusve determinatis.

Colour cinereous. Fore wings with more or less conspicuous black marks.

1. GRAPHIPHORA MARGARITACEA.

Cinerea; alæ anticæ strigis tribus geminis, umbra media et lineæ undulatæ umbra interiore in margine antico incrassatis, macula quadrata nigra perparva; posticæ albidæ.

———, *Engr. Pap. d'Eur.* 416, c.

Noctua margaritacea, Bork. *Eur. Schm.* iv. 98. *Guen. Noct.* i. 323, 532.

Noctua glareosa, Treit. *Schmet.* Eur. ii. 247. *Frey. Neu. Beit. Schm.* ii. pl. 185. *Costa, Faun. Nap.* 19. *Boisd. Ind. Méth.* 106, 794. *Guen. Ann. Soc. Ent. Fr.* vi. 239.

Noctua I-intactum, Hübn. *Samml. Eur. Schm.* Noct. f. 130. *Dup. Hist. Nat. Léop. Fr.* iii. 75, pl. 77, f. 3, 4.

Agrotis margaritacea, Herr.-Schæff. *Schmet.* Eur. ii. 331, 451.

Eugraphe I-intactum, Hübn. *Verz. Schm.* 224, 2245.

France. Switzerland.

2. GRAPHIPHORA CANDELISEQUA.

Cana; abdomen albidum; alæ anticæ disco fuscescente, lituris costalibus lineisque duabus transversis angulosis nigricantibus; fuscedo excisuris duabus anticis subquadratis; alæ posticæ albidæ marginibus latissimis cinereis.

Noctua candelisequa, Wien. *Verz.* 72, 5. *Hübn. Samml. Eur. Schm.* Noct. pl. 85, f. 397. *Treit. Schm.* Eur. v. 217, 5. *Dup. Hist. Nat. Léop. Fr.* vi. 72, pl. 77, f. 2. *Boisd. Ind. Méth.* 106, 793. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 323, 533.

Noctua (Agrotis) candelisequa, *Meig. Syst. Besch.* i. 97, 29, pl. 9 f. 5.

Euxoa candelisequa, *Hübner. Verz. Schmett.* 209, 2093.

Agrotis candelisqua, *Herr.-Schæff. Schmett. Eur.* ii. 352, 452.

a—d. Europe. From M. Becker's collection.

3. GRAPHIPHORA CHALDAICA.

Pallide cinerea; abdomen albidum; alæ anticæ apud costam albidæ, cupreo subnitentes, strigis tribus transversis nigris, maculis ordinariis cupreis triangulis nigris interne coadunatis; posticæ albæ.

Noctua chaldaica, *Kinderm. Boisd. Ind. Méth.* 1126. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 481, pl. 41. *Frey. Neu. Beit. Schmett.* iv. pl. 304, f. 1. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 324, 534.

Orthosia chaldaica, *Herr.-Schæff. Eur. Schmett.* ii. 199, 51; ii. *Noct.* pl. 23, f. 110.

South Russia.

a. Europe. From M. Becker's collection.

4. GRAPHIPHORA GLAREOSA.

Albida; alæ anticæ canæ, lituris quatuor costalibus punctisque paucis discalibus nigris. Mas.—Alæ posticæ albæ. Fœm.—Alæ posticæ albidæ, cinereo marginatæ.

———, *Engr. Pap. d'Eur.* 416, a, b.

Noctua glareosa, *Esp. Schmett.* 387, pl. 128, f. 3. *Boisd. Ind. Méth.* 106, 794. *Guen. Noct.* i. 324, 535.

Caradrina glareosa, *Treit. Schmett.* v. 2, 2471.

Orthosia glareosa, *Treit. Schmett. Eur. Suppl.* x. 79.

Graphiphora glareosa, *Steph. Ill. Brit. Ent. Haust.* ii. 159, pl. 21, f. 1. *Herr.-Schæff. Eur. Schmett.* ii. 199, 52.

Noctua hebraica, *Hübner. Samml. Eur. Schmett. Noct.* pl. 140, f. 642, 643. *Frey. Neu. Beit. Schmett.* iii. pl. 201, f. 2, 3.

Eugraphe glareosa, *Hübner. Verz. Schmett.* 224, 2246.

Noctua decempunctata? *Vill.* pl. 5, f. 17.

Noctua I-geminum, *Dup. Hist. Nat. Léop. Fr.* iii. 80, pl. 77, f. 6.

Noctua (Caradrina) glareosa, *Meig. Syst. Besch.* iii. 121, 70, pl. 98, f. 6, 7.

a—j. England. From Mr. Stephens' collection.

k, l. England. From Mr. Carter's collection.

m. England.

n—p. Europe. From M. Becker's collection.

5. GRAPHIPHORA DEPUNCTA.

Cervino-testacea; alæ anticæ maculis basalibus nigris, fasciis duabus punctisque exterioribus cinereis, maculis pallidioribus marginatis, orbiculari magna obliqua subelliptica; posticæ fusco-cinereæ, ciliis testaceis.

Phalæna-Noctua depuncta, Linn. Faun. Suec. 1214.

Noctua depuncta, Fabr. Ent. Syst. iii. 2, 109, 327. Esp. Schmett. pl. 177, f. 3. Treit. Schmett. Eur. i. 229. God. Hist. Nat. Lép. Fr. ii. 191, pl. 62. Frey. Neu. Beit. Schmett. 118, pl. 166; Ent. Zeit. Stett. ii. 93. Boisd. Ind. Méth. 105, 781. Guen. Noct. i. 324, 536.

Noctua mendosa, Hübn. Schmett. Eur. Noct. pl. 26, f. 120; pl. 107, f. 502.

Eugraphe depuncta, Hübn. Verz. Schmett. 324, 536.

Graphiphora depuncta, Steph. Ill. Brit. Ent. Haust. ii. 133. Westw. & H. Brit. Moths, i. 130, pl. 26, f. 14.

a, b. Carlisle. Presented by J. B. Hodgkinson, Esq.

c, d. England. From Mr. Stephens' collection.

e—g. Europe. From M. Becker's collection.

Group 2.

Alæ anticæ ferruginosæ, lineis transversis non bene determinatis; orbicularis et reniformis sæpissime nigro marginatæ.

Fore wings more or less ferruginous, with slight transverse lines; orbicular and reniform spots generally bordered with black.

6. GRAPHIPHORA AUGUR.

Ferrugineo-fusca; abdomen fusco cinerascens; alæ anticæ claviformi, orbiculari et reniformi nigro marginatis, claviformi elongata, orbiculari ovata, lineis transversis subobsoletis; posticæ cinereo-fusca.

Phalæna-Noctua Augur, Gmel. ed. Syst. Nat. i. 5, 2539, 1017.

Noctua Augur, Fabr. Sp. Ins. ii. 223, 77; Mant. Ins. ii. 152, 127; Ent. Syst. iii. 2, 61, 170. Bork. Eur. Schmett. iv. 209, 95. Treit. Schmett. v. 210, 3. Hübn. Eur. Schmett. Noct. pl. 31, f. 148. Dup. Hist. Nat. Lép. Fr. vi. pl. 73, f. 6. Haw. Lep. Brit. 172. Guen. Noct. i. 325, 537.

- Noctua (Agrotis) Augur, *Meig. Handb.* 155, 19; *Syst. Besch.* iii. 96, 27, pl. 98, f. 8.
- Noctua assimulans, *Scriba, Beitr. Ins. Gesch.* iii. pl. 18, f. 6. *Bork. Eur. Schmett.* iii. 209, 96.
- Noctua Omega, *Esp. Schmett.* iv. pl. 131, f. 2. *Bork. Eur. Schmett.* iv. 232.
- Noctua Hippophaes, *Hüb. Eur. Schmett. Noct.* f. 782.
- Exarnis Augur, *Hüb. Verz. Schmett.* 225, 2261.
- Spælotis augur, *Boisd. Ind. Méth.* 106, 797.
- Graphiphora augur, *Steph. Ill. Brit. Ent. Haust.* ii. 131. *Westw. and H. Brit. Moths*, i. 127, pl. 25, f. 6, 7.
- a. England. Presented by H. Doubleday, Esq.
- b—k. England. From Mr. Stephens' collection.
- l—o. England.
- p—r. Europe. From M. Becker's collection.
- s. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.
- t—z. Trenton Falls, New York. Presented by E. Doubleday, Esq.

7. GRAPHIPHORA SIGMA.

Nigro-fusca; caput et thorax anticus cervina; abdomen cinereum; alæ anticæ costa lineisque transversis undulatis cervinis, annulis duobus connexis unoque minore posteriore nigris; posticæ cinereæ.

- , *Engr. Pap. d' Eur.* 542, a, b.
- Noctua sigma, *Wien. Verz.* 78, 8. *Hüb. Samml. Eur. Schmett. Noct.* f. 122. *Treit. Schmett. Eur.* i. 212. *Frey. Beit. Ges. Eur. Schmett.* pl. 124. *Boisd. Ind. Méth.* 106, 796. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 325, 538.
- Noctua Signum, *Fabr. Ent. Syst.* iii. 2, 65, 184. *God. Hist. Nat. Léop. Fr.* ii. 209, pl. 64, f. 1.
- Noctua umbra, *View. Verz. Schmett.* 103. *Hüb. Beit.* pl. 3, O.
- Noctua caracterea, *Esp. Schmett. Text.* *Bork. Eur. Schmett.* iv. 207.
- Noctua ditrapezium, *Esp. Schmett.* iv. pl. 147, f. 1, 2.
- Noctua nubila, *Esp. Schmett.* iv. pl. 142, f. 3.
- Eugraphe caracterea, *Hüb. Verz. Schmett.* 224, 2243.
- a, b. Europe. From M. Becker's collection.

Group 3.

Alæ anticæ sæpissime ferrugineæ aut rufescentes, striga aut macula discal inigra.

Fore wings generally ferruginous or reddish, with a black discal streak, or a black mark between the orbicular and reniform spots.

A. Alæ anticæ macula costali subapicali nigra.

A. Alæ posticæ albidæ. - - - C-nigrum, *Linn.*

B. Alæ posticæ subtestaceæ, margine cinereo.
ditrapezium, *Hüb.*

C. Alæ posticæ cinereæ.

A. Alæ anticæ maculis duabus discalibus nigris.
triangulum, *Hüfn.*

B. Alæ anticæ macula una discali nigra. - collina, *Boisd.*

B. Alæ anticæ macula nulla costali nigra.

A. Alæ anticæ obscuriores.

A. Alæ posticæ ciliis obscurioribus. - brunnea, *Wien. Verz.*

B. Alæ posticæ ciliis pallidioribus.

a. Alæ anticæ maculis discalibus nigricantibus.
rhomboidea, *Treit.*

b. Alæ anticæ macula discali fusca. - conflua, *Treit.*

c. Alæ anticæ maculis nullis obscurioribus. *Dahl.*, *Hüb.*

B. Alæ anticæ pallidiores. - - - festiva, *Wien. Verz.*

8. GRAPHIPHORA C-NIGRUM.

Fusca; thorax fascia obscuriore, antice viridescens; abdomen albidum; alæ anticæ cinereæ, lituris costalibus nigris, plaga costali albida nigro marginata, lineis transversis subundulatis cervinis nigro marginatis; posticæ albidæ, cinereo late marginatæ.

———, *Engr. Pap. d' Eur.* 424, a—c.

Phalæna-Noctua C-nigrum, *Linn. Faun. Suec.* 1193. *Clerck, Icon.* pl. 1, f. 3. *Gmel. ed. Syst. Nat.* i. 5, 2542, 162.

Noctua C-nigrum, *Wien. Verz.* 77, 7. *Fabr. Mant. Ins.* ii. 154. 140; *Ent. Syst.* iii. 265, 183. *Knock, Beit. Ins.* iii. pl. 5, f. 1. *Bork. Eur. Schmett.* iv. 492, 194. *Hüb. Samml. Eur. Schmett. Noct.* pl. 24, f. 111. *Haw. Lep. Brit.* 191. *Treit. Schmett. Eur.* v. 237, 13. *God. Hist. Nat. Léop. Fr.* ii. 177, pl. 6, f. 1. *Boisd. Ind. Méth.* 104, 777. *Guén. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 328, 545. *Meig. Syst. Besch.* iii. 100, 34, pl. 93, f. 4.

Bombyx nun-atrum, *Esp. Schmett.* Texte 385. *Bork. Eur. Schmett.* 195.

Noctua gothica, *var. singularis*, *Esp. Schmett.* iii. pl. 76, f. 3.

Megasema C-nigrum, *Hüb. Verz. Schmett.* 223, 2231.

Graphiphora C-nigrum, *Steph. Ill. Brit. Ent. Haust.* ii. 136.
Westw. & H. Brit. Moths, i. 132, pl. 26, f. 4, 5.

a—k. England. From Mr. Stephens' collection.

l—p. England.

q—s. Europe. From M. Becker's collection.

t—u. North America. Presented by Major-General Hardwicke.

w—z. United States. Presented by E. Doubleday, Esq.

aa—dd. Nova Scotia. From Lieut. Redman's collection.

ee. ———?

9. GRAPHIPHORA DITRAPEZIUM.

Rubido-ferruginea; *thorax linea transversa albida*; *abdomen testaceum, apice cervinum*; *alæ anticæ apud costæ dimidium basale canescentes, guttis basalibus, maculis duabus subquad-ratis discalibus strigæque exteriore costali nigricantibus, lineis duabus transversis arcuatis fusciscentibus*; *posticæ pallide testaceæ, margine lato cinereo-fusco.*

Noctua ditrapezium, *Bork. Schmett. Eur.* iv. 515, 206. *Wien. Verz.* 312, 8, 9? *Hüb. Samml. Eur. Schmett. Noct.* pl. 100, f. 472. *Treit. Schmett. Eur. Suppl.* x. 36. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 329, 547.

Noctua tristigma, *Och. Syst. Gloss. Schm. Von. Eur.* iv. *Treit. Schmett. Eur.* v. 253, 15. *Boisd. Ind. Méth.* 105, 778.

Megasema ditrapezium, *Hüb. Verz. Schmett.* 223, 2229.

Graphiphora ditrapezium, *Steph. Cat. Brit. Lep.* 71.

a, b. Europe. From M. Becker's collection.

10. GRAPHIPHORA TRIANGULUM.

Ferrugineo-cinereæ; *thorac anticæ pallidior*; *alæ anticæ lineis transversis undulatis conspicuis, guttis costalibus, macula sub-apicali, macula divisa basali plagaque discali nigris, orbiculari obliqua*; *posticæ cinereæ, ciliis testaceis.*

—————, *Engr. Pap. d'Eur.* 427, a.

Noctua triangulum, *Hüb. Berl. Mag.* 1766, 58. *Treit. Schmett. Eur.* i. 240. *Boisd. Ind. Méth.* 165, 779. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 329, 548. *Meig. Syst. Besch.* iii. 101, 35, pl. 93, f. 2, 3.

Noctua Sigma, *Esp. Schmett.* iv. pl. 186, f. 1, 3. *Knoch, Beit. Ins.* iii. pl. 4, f. 7. *Bork. Eur. Schmett.* iv. 193. *Hübner. Samml. Exot. Schmett. Noct.* pl. 106, f. 497. *Klém, Beit. Ins. Gesch.* ii. pl. 10. *Haw. Lep. Brit.* 190. *God. Hist. Nat. Léop. Fr.* ii. 197, pl. 60.

Megasema triangulum, *Hübner. Verz. Schmett.* 222, 2227.

Graphiphora triangulum, *Steph. Ill. Brit. Ent. Haust.* ii. 133. *Westw. & H. Brit. Moths*, i. 130, pl. 26, f. 3.

a—q. England. From Mr. Stephens' collection.

r—t. England.

v—w. Europe. From M. Becker's collection.

x—cc. Trenton Falls, New York. Presented by E. Doubleday, Esq.

dd. ——— ?

11. GRAPHIPHORA RHOMBOIDEA.

Fusca; abdomen *cinereum*; *alæ anticæ purpurascens-fusæ*, *annulis duobus lineisque transversis undulatis nigris*; *posticæ cinereæ*, *marginē obscuriore*. *Mas.—Thorax nigro-fuscus*; *alæ anticæ annulis lineisque cervino ex parte marginatis*.

———, *Engr. Pap. d' Eur.* 425, a.

Noctua rhomboidea, *Esp. Schmett.* iv. pl. 149, f. 3. *Treit. Schmett. Eur.* v. 234, 11. *God. Hist. Nat. Léop. Fr.* v. 193, pl. 62, f. 5. *Meig. Syst. Besch.* iii. 99, 32, pl. 93, f. 5. *Frey. Neu. Beit. Schmett.* iv. pl. 309. *Boisd. Ind. Méth.* 105, 780. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 330, 549.

Noctua stigmatica, *Hübner. Samml. Eur. Schmett. Noct.* pl. 100, f. 470, 471.

Megasema stigmatica, *Hübner. Verz. Schmett.* 223, 2230.

Graphiphora tristigma, *Steph. Ill. Brit. Ent. Haust.* ii. 132. *Westw. & H. Brit. Moths*, i. 129, pl. 25, f. 10.

Graphiphora rhomboidea, *Steph. Cat. Brit. Lep.* 71.

a—l. England. From Mr. Stephens' collection.

m—o. England.

p—s. Europe. From M. Becker's collection.

12. GRAPHIPHORA BRUNNEA.

Rubiginea; abdomen *rufescens*, *basi cinereum*; *alæ anticæ subpurpurascens fasciis duabus obscurioribus testaceo submarginatis*, *litura discali testacea*; *posticæ cinerascens*, *marginē obscuriore*, *ciliis rufescentibus*.

- Phalæna* (Noctua) *arvensis*, *Gmel. ed. Syst. Nat.* i. 5, 2569, 1153.
Noctua brunnea, *Wien. Verz.* 83, 15. *Fabr. Mant. Ins.* ii. 168, 223; *Ent. Syst.* iii. 2, 94, 278. *Hüb. Samml. Eur. Schm.* *Noct.* pl. 26, f. 121. *Haw. Lep. Brit.* 189. *Treit. Schm.* *Eur.* v. 219, 6. *God. Hist. Nat. Lép. Fr.* ii. 183, pl. 61, f. 4. *Meig. Syst. Besch.* iii. 98, 30, pl. 93, f. 3. *Frey. Beit. Ges. Eur. Schm.* pl. 58. *Boisd. Ind. Méth.* 105, 792. *Guen. Ann. Soc. Ent. Fr.* vi. 239. *Noct.* i. 330, 550.
Diarsia brunnea, *Hüb. Verz. Schm.* 222, 2224.
Noctua lucifera, *Esp. Schm.* iv. pl. 142, f. 6; pl. 188, f. 4, 5.
Noctua Fragariæ, *Bork. Schm.* iv. 497, 196.
Graphiphora brunnea, *Steph. Ill. Brit. Ent. Haust.* ii. 131. *Westw. & H. Brit. Moths*, i. 128, pl. 25, f. 11.
a, b. England (Carlisle). Presented by J. B. Hodgkinson, Esq.
c—s. From Mr. Stephens' collection.
t. Scotland. From Mr. Foxcroft's collection.
v—z. Europe. From M. Becker's collection.

13. GRAPHIPHORA FESTIVA.

Cinereo-cervina; abdomen pallide cinereum; alæ anticæ ex parte pallidiores, annulis duabus discalibus subquadratis, lineis transversis undulatis guttisque marginalibus fuscis; posticæ pallidiores, margine fuscescente.

- Noctua festiva*, *Wien. Verz.* 314, 7, 8. *Treit. Schm.* v. 224, 8. *Hüb. Eur. Schm.* *Noct.* pl. 24, f. 114; pl. 99, f. 467. *God. Hist. Nat. Lép. Fr.* v. 61, pl. 6, f. 5. *Meig. Syst. Besch.* iii. 98, 31. pl. 94, f. 4. *Boisd. Ind. Méth.* 105, 790. *Guen. Noct.* i. 331, 551.
Noctua mendica, *Fabr. Ent. Syst.* iii. 2, 93, 276.
Noctua Primulæ, *Esp. Schm.* iv. pl. 136, f. 5, 6. *Bork. Eur. Schm.* iv. 511, 204.
Graphiphora festiva, *Steph. Ill. Brit. Ent. Haust.* ii. 134. *Westw. & H. Brit. Moths*, i. 131, pl. 25, f. 12.
Noctua congener, *Hüb. Samml. Eur. Schm.* 617.
Noctua punicea, *Hüb. Samml. Eur. Schm.* 115.
Noctua festiva, var. *A. congener*, *Guen. Noct.* i. 331.
Diarsia festiva, *Hüb. Verz. Schm.* 222, 2222.
Diarsia punicea, *Hüb. Verz. Schm.* 222, 2225.
Var. Noctua subrufa, *Haw. Lep. Brit.* 227.
Noctua Dahlii, *God. Hist. Nat. Lep. Fr.* v. 189, pl. 62, f. 1, 2.

Polia congener, *Herr.-Schæff. Eur. Schmett.* ii. 267, 263.

a. England. Presented by E. W. Duck, Esq.

b—ii. England. From Mr. Stephens' collection.

jj—nn. England.

oo—uu. Europe. From M. Becker's collection.

G. congener and *G. festiva* may perhaps be two distinct species.

14. GRAPHIPHORA COLLINA.

Ferruginea; *abdomen cinereum*; *alæ anticæ fasciis pallidioribus et nigricantibus, lituris basalibus et discalibus unaque costali subapicali nigris*; *posticæ cinereæ, basi pallidiores.*

Noctua collina, *Boisd. Ind. Méth.* 105, 789. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 331, 552. *Herr.-Schæff. Schmett. Eur.* pl. 29, f. 142.

Alps of South France and of South Switzerland.

15. GRAPHIPHORA CONFLUA.

Ferruginea; *abdomen cinereum*; *alæ anticæ fasciis nonnullis pallidioribus fuscisque, maculaque discali fusca*; *posticæ nigro-cinereæ, basi pallidiores.*

Noctua conflua, *Treit. Schmett. Eur.* vi. 1, 405; *Suppl.* x. 35. *Frey. Beit. Ges. Eur. Schmett.* pl. 98, f. 1. *Dup. Hist. Nat. Lép. Fr.* iv. 140, pl. 109. *Boisd. Icon. Lép. d'Eur.* pl. 83; *Ind. Méth.* 105, 784. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 331, 553. *Herr.-Schæff. Schmett. Eur.* pl. 31, f. 154.

Prussia. Iceland.

16. GRAPHIPHORA DAHLII.

Rufo-rosea; *abdomen cinereum, lateribus rufescentibus*; *alæ anticæ lineis transversis subobsoletis canis, guttis nonnullis apud venas nigris, orbiculari magna elliptica, reniformi ex parte albida*; *posticæ cinereæ, ciliis testaceis.*

Noctua Dahlii, *Hübner. Eur. Schmett. Noct.* pl. 99, 465, 466. *Treit. Schmett. Eur.* i. 222. *God. Hist. Nat. Lép. Fr.* ii. 189, pl. 62, f. 2. *Eversm. Faun. Volg-Ural.* 209. *Boisd. Ind. Méth.* 105, 791. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 332, 554.

Noctua erythrocephala, *Haw. Lep. Brit.* 227, 196.

Graphiphora Dahlii, *Steph. Ill. Brit. Ent. Haust.* ii. 134. *Westw.*
& *H. Brit. Moths*, i. 131, pl. 25, f. 12.

Diarsia Dahlii, *Hübner. Verz. Schmett.* 222, 2221.

Var. *Graphiphora candelisequa*, *Steph. Ill. Brit. Ent. Haust.* ii. 132.

a. England. Presented by J. C. Dale, Esq.

b—q. England. From Mr. Stephens' collection.

r, s. England. From Mr. Carter's collection.

t—u. England.

w. Europe. From M. Becker's collection.

x. New York. Presented by E. Doubleday, Esq.

Group 4.

Alæ anticæ lituris indistinctis; striga obscura discali bene determinata; orbicularis et reniformis pallidæ, vix distinctæ. Mas.
—*Antennæ subpectinatae. Fæm.*—*Antennæ simplices.*

Fore wings with the usual marks indistinct; the dark discal streak more apparent; orbicular and reniform spots pale, not well defined. *Male.*—*Antennæ* slightly pectinated. *Female.*—*Antennæ* simple.

17. GRAPHIPHORA SUBROSEA.

Rufo-testacea; abdomen testaceum; alæ anticæ roseo conspersæ, lineis transversis undulatis, maculis costalibus strigae lata discali ferrugineis, orbiculari et reniformi subobsoletis; posticæ albidæ, margine cinereo.

Graphiphora rhomboidea, *Steph. Ill. Brit. Ent. Haust.* ii. 128.

Graphiphora subrosea, *Steph. Ill. Brit. Ent. Haust. Append.* ii. 200, pl. 19, f. 1.

Noctua subrosea, *Guen. Noct.* i. 332, 555.

Cænophila subrosea, *Steph. Cat. Brit. Lep.* 68.

a—c. England. Presented by F. Bond, Esq.

d—s. England. From Mr. Stephens' collection.

t, v. England. From Mr. Carter's collection.

u. England.

Group 5.

Alæ anticæ subquadratæ, rufescente-ferrugineæ, lineis transversis distinctis obscurioribus, orbiculari et reniformi pallidis bene determinatis. *Mas.*—Antennæ subciliatæ.

Fore wings subquadrate, reddish ferruginous, with distinct darker transverse lines; orbicular and reniform spots pale, distinctly marked, the former nearly round. *Male.*—Antennæ minutely ciliated.

18. GRAPHIPHORA PUNICEA.

Roseo-rufa; abdomen pallidum; alæ anticæ lineis transversis pallidioribus et nigricantibus, litura costali, macula discali fasciæque lata exteriori nigricantibus; posticæ albidæ, ciliis cervinis.

Noctua punicea, Hübn. *Eur. Schmett. Noct.* pl. 1, f. 115. *Treit. Schmett. Eur.* vi. 1, 386. *God. Hist. Nat. Lép. Fr.* v. 206, pl. 63, f. 5. *Freyer, Beit. Ges. Eur. Schmett.* pl. 15, 46; *Ent. Zeit. Stett.* ii. 93. *Meig. Syst. Besch.* iii. 103, 39, pl. 99, f. 3. *Boisd. Icon. Lép. d'Eur.* pl. 83, f. 4; *Ind. Méth.* 105, 786. *Eversm. Faun. Volg-Ural.* 210. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 333, 557.

Diarsia punicea, Hübn. *Verz. Schmett.* 222, 2225.

North Europe.

19. GRAPHIPHORA RUBI.

Ferruginea; abdomen cinerascens; alæ anticæ annulis duobus lineisque transversis undulatis canis aut pallide ferrugineis fusco marginatis; posticæ cinereæ, ciliis pallidioribus.

Noctua Rubi, *View. T. V.* ii. 57, pl. 3, f. 5.

Noctua xanthographa, *Brahm. I. K.* ii. 112.

Noctua bella, *Bork. Eur. Schmett.* iv. 253, 605. *Treit. Schmett. Eur.* ii. 121; x. 35. *God. Hist. Nat. Lép. Fr.* ii. 199, pl. 63? *Frey. Neu. Beit. Schmett.* pl. 100. *Boisd. Icon. Lép. d'Eur.* pl. 83, f. 5; *Ind. Méth.* 105, 785. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* 1, 334, 558.

Noctua radica, *Esp. Schmett.* pl. 151, f. 4.

Noctua quadratum, Hübn. *Schmett. Eur. Noct.* pl. 101, f. 477.

Diarsia leucographa, Hübn. *Verz. Schmett.* 222, 2226.

Noctua punicea, *Haw. Lep. Brit.* 228.

Graphiphora punicea, *Steph. Ill. Brit. Ent. Haust.* ii. 135.

Graphiphora bella, *Westw. & H. Brit. Moths*, i. 132, pl. 26, f. 6.

Graphiphora Rubi, *Steph. Cat. Brit. Lep.* 71.

a—n. England. From Mr. Stephens' collection.

o—r. England.

s—w. Europe. From M. Becker's collection.

20. GRAPHIPHORA UMBROSA.

Cervina ; abdomen pallide testaceum ; alæ anticæ annulis duobus discalibus, lineis quatuor transversis undulatis fasciisque exteriore fuscis ; posticæ subtestaceæ, margine lato cinereo.

Noctua umbrosa, *Hübner. Eur. Schmett. Noct.* pl. 97, f. 456, 457.

Treit. Schmett. Eur. ii. 128. *God. Hist. Nat. Léop. Fr.* ii. 201,

pl. 63. *Boisd. Ind. Méth.* 105, 787. *Guen. Ann. Soc. Ent. Fr.* vi. 239 ; *Noct.* i. 334, 559.

Noctua sexstrigata, *Haw. Lep. Brit.* 228, 198.

Lytæa umbrosa, *Steph. Ill. Brit. Ent. Haust.* ii. 108. *Westw. and H. Brit. Moths*, i. 110, pl. 22, f. 1.

Scotia umbrosa, *Hübner. Verz. Schmett.* 226, 2268.

a. England. From Mr. Haworth's collection.

b—l. England. From Mr. Stephens' collection.

m—p. England.

Group 6.

Palpi ascendentes. Alæ anticæ margine exteriore subundulato. *Mas.*—Antennæ simplices.

Palpi ascending. Fore wings indistinctly undulating along the exterior border. *Male.*—Antennæ simple.

21. GRAPHIPHORA BAJA.

Ferruginosa, cinereo conspersa ; abdomen cinerascens ; alæ anticæ lineis transversis undulatis, orbiculari et reniformi saturatioribus, his testaceo marginatis, orbiculari magna, macula costali subapicali nigra ; posticæ cinereæ.

———, *Engr. Pap. d'Eur.* 540, a, b.

Phalæna-Noctua Baja, *Gmel. ed. Syst. Nat.* i. 5, 2579, 1191.

Noctua Baja, *Wien. Verz.* 77, 3. *Fabr. Mant. Ins.* ii. 175, 264 ; *Ent. Syst.* iii. 2, 109, 329. *Bork. Eur. Schmett.* iv. 530, 213.

Hübner. Eur. Schmett. Noct. pl. 25, f. 119. *Haw. Lep. Brit.*

188. *Freyer, Alt. Beitr.* pl. 74, 89; *Ent. Zeit. Stett.* ii. 93, *Meig. Syst. Besch.* iii. 97, 28, pl. 94, f. 9. *Treit. Schmett. Eur.* v. 215, 4. *God. Hist. Nat. Léop. Fr.* ii. 203 pl. 63, f. 4. *Boisd. Ind. Méth.* 106, 795. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 335, 562.

Amathes baja, *Hübner. Verz. Schmett.* 222, 2220.

Graphiphora baja, *Steph. Ill. Brit. Ent. Haust.* ii. 134. *Westw. and H. Brit. Moths*, i. 130, pl. 25, f. 8, 9.

Var. Noctua tricomma, *Esp. Schmett.* iv. pl. 167, f. 6.

a-v. England. From Mr. Stephens' collection.

u-y. England.

z-ee. Europe. From M. Becker's collection.

ff-kk. Trenton Falls, New York. Presented by E. Doubleday, Esq.

ll. ——— ?

mm, nn. Orilla, West Canada. From Mr. Bush's collection.

oo. Rio Janeiro. From Mr. Stevens' collection.

22. GRAPHIPHORA SOBRINA.

Rubro-cinerea; *caput, palpi et thorax anticus rubra*; *abdomen testaceum*; *alæ anticæ apud costam subcanescentes, lineis transversis subobsoletis fusciscentibus, guttis punctisque nonnullis nigricantibus*; *posticæ cinereæ, ciliis sordide albidis ex parte rufescente interlineatis.*

Noctua sobrina, *Boisd. Ind. Méth.* 105, 782. *Eversm. Faun. Volg-Ural.* 210. *Dup. Hist. Nat. Léop. Fr. Suppl.* iv. 224, pl. 69, f. 5, a. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 335, 563.

Orthosia sobrina, *Herr.-Schæff. Eur. Schmett.* ii. *Noct.* pl. 26, f. 127, 129. *Steph. Cat. Brit. Lep.* 77.

Orthosia Gruneri, *Pierret. Dup. Hist. Nat. Léop. Fr. Suppl.* pl. 69, f. 5, 6. *Herr.-Schæff. Eur. Schmett.* ii. 196, 42.

a, b. Europe. From M. Becker's collection.

Group 7.

Color cinereus. *Alæ anticæ longiusculæ, lituris subobsoletis. Mas.*—*Antennæ subserratæ.*

Colour cinereous. Fore wings somewhat longer than in the other groups; the usual marks nearly obsolete. *Male.*—*Antennæ minutely serrated.*

23. GRAPHIPHORA NEGLECTA.

Cervino-cinerea; *alæ anticæ gutta discali nigricante*; *posticæ cinereo-fuscæ, ciliis pallidioribus.*

Noctua neglecta, *Hübner. Eur. Schmett. Noct.* pl. 34, f. 160. *Haw Lep. Brit.* 123. *Guen. Ann. Soc. Ent. Fr.* vi.; *Noct.* i. 336, 564.

Segetia neglecta, *Steph. Ill. Brit. Ent. Haust.* ii. 154, pl. 21, f. 2.

Orthosia neglecta, *Boisd. Ind. Méth.* 140, 1127. *Frey. Neu. Beit. Schmett.* ii. pl. 136. *Steph. Cat. Brit. Lep.* 77.

Noctua lævis, *Haw. Lep. Brit.* 130. *Steph. Ill. Brit. Ent. Haust.* ii. 157.

Caradrina neglecta, *Hübner. Verz. Schmett.* 230, 2307.

a—h. England. From Mr. Stephens' collection.

i, k. England. From Mr. Carter's collection.

l. ———? From Mr. Milne's collection.

24. GRAPHIPHORA CERASINA.

Rubra; *abdomen cinereum*; *alæ anticæ macularum marginibus et lineis transversis undulatis nigricantibus*; *posticæ nigro-cinereæ, basi ciliisque pallidioribus.*

Noctua cerasina, *Frey. Neu. Beit. Schmett.* iv. pl. 312. *Herr.-Schæff. Schmett. Eur.* ii. pl. 27, f. 131—133. *Guen. Noct.* i. 336, 565.

Borders of the Danube.

North America.

Group 1.

Like the second European group.

25. GRAPHIPHORA LUBRICANS.

Cinerea; *thorax antice nigro fasciatus*; *abdomen testaceum*; *alæ anticæ ferrugineæ, costa cinerea nigro maculata, claviformi et orbiculari obsoletis, reniformi nigra cinereo interlineata*; *posticæ sordide albidæ.*

Noctua lubricans, *Guen. Noct.* i. 323, 531.

a. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

26. GRAPHIPHORA EXPANSA.

Mas. *Ferrugineo-rufa; antennæ serratæ; abdomen pallidum, basi cinereum; alæ anticæ purpurascente tinctæ, fasciis quatuor undulatis nigris, 2a 3aque antice dilatatis, 4a apud costam dilatata guttas tres rufescentes includente; posticæ cinereæ, gutta discali margineque latissimo nigricantibus.*

Male. Ferruginous-red. Antennæ serrated. Abdomen paler red, cinereous towards the base. Fore wings with a slight purplish bloom, and with four distinct undulating black bands, of which the second and the third are dilated in front of the middle, and the fourth by the costa, and there contains three reddish dots. Hind wings cinereous, with a blackish discal dot, and a very broad blackish border. Length of the body $7\frac{1}{2}$ lines; of the wings 16 lines.

a. Orilla, West Canada. From Mr. Bush's collection.

27. GRAPHIPHORA JUCUNDA.

Fœm. *Læte rufa; thorax testaceo fasciatus; abdomen pallide cinereum; alæ anticæ lituris costalibus testaceis nigrisque, linea transversa submarginali guttulari testacea, gutta basali testacea, striga discali nigra, orbiculari albido marginata, reniformi albida rufo interlineata, guttis marginalibus unaque postica interiore nigris; posticæ pallide cinereæ, macula discali fasciæque submarginali obscurioribus.*

Female. Rather bright red. Thorax with testaceous bands. Abdomen pale cinereous. Fore wings with some minute testaceous and black marks along the costa, and with a dotted testaceous transverse submarginal line; the other transverse lines almost obsolete; a testaceous dot between the base and a black discal streak, which is interrupted by the orbicular spot and extends to the reniform; a black dot behind the orbicular spot, which is large, round, and has a whitish border; reniform whitish, interlined with red; a row of black marginal dots. Hind wings pale cinereous; discal spot and submarginal band darker cinereous. Length of the body 6 lines; of the wings 14 lines.

a. Orilla, West Canada. From Mr. Bush's collection.

28. GRAPHIPHORA SIGMOIDES.

Pallide cervina; thoracis latera ferruginea, nigro vittata; alæ anticae ferrugineae, lineis transversis undulatis maculae subapicali testaceis, vitta discali interrupta et abbreviata nigra orbicularem subovatam includente; posticae pallide cinereae.

Var. *Cinerea; abdomen pallidum; alæ anticae nigro conspersae, lineis transversis indistinctis, fascia submarginali pallida, lituris costalibus nigris, orbiculari et reniformi nigro marginatis, illa subrotunda sat magna; posticae albidæ.*

Noctua sigmoides, *Guen. Noct. i. 325, 539.*

a—h. Trenton Falls, New York. Presented by E. Doubleday, Esq.

Group 2.

Like the third European group.

29. GRAPHIPHORA BICARNEA.

Ferrugineo-picea; thorax cervino fasciatus; abdomen testaceum; alæ anticae plaga basali maculae costali exteriore cervinis, vitta discali interrupta maculae subapicali nigris, orbiculari et reniformi pallide piceis, illa ovata; posticae cinerascens, ciliis pallidis.

Noctua bicarnea, *Guén. Noct. i. 329, 546.*

a—d. Trenton Falls, New York. Presented by E. Doubleday, Esq.

Group 3.

Like the fourth European group.

30. GRAPHIPHORA ELIMATA.

Cinerascens; thorax antice et abdomen cervina; alæ anticae lineis transversis undulatis maculisque discalibus pallide cinereis, lituris costalibus strigaeque discali fuscis, orbiculari ovata sat magna; posticae cinereo-fusca.

Noctua elimata, *Guen. Noct. i. 333, 556.*

a. Georgia. Presented by E. Doubleday, Esq.

South America.

Group 1.

Like the sixth European group.

31. GRAPHIPHORA MAJOR.

Rufo-ferruginea; palpi ascendentes, articulo 2o cylindrico longiusculo; abdomen testaceo-cinerascens; alæ anticæ violaceo nigricante tinctæ, macula reniformi testaceo marginata et signata, margine exteriori subundulato; posticæ cervino-cinereæ.

Noctua major, Guen. *Noct.* i. 334, 560.

a, b. Rio Janeiro. From Mr. Stevens' collection.

32. GRAPHIPHORA ALBIRENA.

Fœm. *G. majori valde affinis, minor*; alæ angustiores; anticæ apice plus acutæ; macula reniformis maxima, informis, alba, umbra nigricante marginata, linea subterminali e punctis flavescentibus.

Noctua albirena, Guen. *Noct.* i. 335, 561.

Brazil.

33. GRAPHIPHORA MAJA.

Mas. *Ferrugineo-fusca*; abdomen cinereum, apice cervinum; alæ anticæ cinereo subtinctæ, lineis transversis obscure fuscis indistinctis undulatis, macula subcostali nigra, lituris costalibus et submarginalibus albidis, guttis submarginalibus nigris, orbiculari et reniformi albido marginatis, hac fusco notata; posticæ fusco-cinereæ, ciliis testaceis.

Noctua maja, MSS.

Male. Ferruginous-brown. Abdomen cinereous, fawn-colour at the tip. Fore wings with a slight cinereous tinge; transverse lines dark brown, indistinct, undulating; the exterior one with a black spot near the costa; some minute whitish marks along the costa, and on the submarginal black dots; orbicular and reniform spots with whitish outlines, the former more or less indistinct, the latter partly including a diffuse indistinct dark brown spot. Hind wings brownish cinereous, with testaceous ciliæ. Length of the body 8 lines; of the wings 18 lines.

Brazil. In Mr. Saunders' collection.

Africa.

34. GRAPHIPHORA ? EXCISA.

Albida; alæ anticæ lineis transversis cinereis, fascia exteriorē fusca, guttis marginalibus nigris, litura discali atra furcata; posticæ margine cinerea.

Noctua excisa, Herr.-Schæff. Lep. Exot. Sp. Nov. f. 129.

Cape.

35. GRAPHIPHORA INFORMIS.

Mas. *Ferrugineo-fusca; antennæ albidæ, subpectinatæ; abdomen pallidum; alæ anticæ breviusculæ nigro conspersæ, lineis transversis undulatis, lituris costalibus strigisque exterioribus nigricantibus, lunulis marginalibus nigris, macula orbiculari longi-ovata, reniformi vix excavata claviformi longissima per angusta; posticæ cinereo-fusca.*

Ferruginous-brown. Antennæ whitish, slightly pectinated. Abdomen much paler than the thorax. Fore wings rather short, speckled with black, with the usual transverse undulating blackish lines, with blackish marks along the costa, with black marginal lunules, and with an exterior row of blackish streaks; orbicular spot elongate-oval, less than half the size of the reniform, which is hardly excavated; claviform very long and narrow. Hind wings cinereous-brown. Length of the body 6 lines; of the wings 14 lines.

a. Interior of South Africa. Presented by the late Earl of Derby.

36. GRAPHIPHORA IMMITIS.

Cinereo-fusca; thorax antice obscurior; alæ anticæ lineis transversis undulatis pallidioribus et obscurioribus, lituris costalibus testaceis; claviformi et orbiculari obsoletis, reniformi nigro-fusco marginata extus valde excavata; posticæ vix pallidiores.

Cinereous-brown. Thorax dark brown in front. Fore wings with indistinct transverse undulating paler and darker lines; some testaceous marks along the costa, the largest one opposite the reniform spot, which is bordered with blackish brown, and is much excavated on its outer side; claviform and reniform spots obsolete. Hind wings hardly paler than the fore wings. Length of the body 6 lines; of the wings 14 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

37. GRAPHIPHORA ABSORBENS.

Mas et fœm. *Testacea; antennæ maris vix ciliatæ; alæ anticæ fusco conspersæ punctisque fuscis subobsolete fasciatæ, apud costam subrectæ, apice angulatæ, margine exteriori perparum obliquo, orbiculari et reniformi subrotundis nigricantibus; posticæ macula indistincta discali fusca.*

Male and female. Testaceous. Thorax and wings minutely speckled with brown. Fore wings with the speckles here and there more frequent, and forming indistinct bands; costa nearly straight; tips angular; exterior border very slightly oblique; orbicular and reniform marks forming two nearly round blackish spots, the former much smaller than the latter. Hind wings with an indistinct brown discal spot. *Male.*—Antennæ very minutely ciliated. Length of the body 6 lines; of the wings 14 lines.

a, b. South Africa. Presented by Dr. A. Smith.

Asia.

38. GRAPHIPHORA EMINENS.

Schistaceo-cinerea; alæ anticæ lineis transversis nigris remotis duplicatis, strigis discalibus nigricantibus, orbiculari et reniformi conspicuis pallido marginatis illa obliqua subelliptica; posticæ albæ.

Graphiphora eminens, Lederer, Verhandl. Zool. Botan. Verein. in Wien. v. 106, pl. 1, f. 5.

Altai, Siberia.

Australia.

39. GRAPHIPHORA RECLUSA.

Cervina, subtus alba; caput antice album; thorax ex parte albo hirtus; abdomen pallide cinereum; alæ anticæ pallidissime cervinæ, lituris costalibus nigris, fascia diffusa submarginali maculaque postica nigricantibus, orbiculari nigricante pupillata annulo cervinò inclusa, reniformi nigricante vix excavata, lunulis marginalibus nigris; posticæ albæ, litura discali marginæque fuscis.

Fawn-colour, mostly white beneath. Head white in front. Thorax partly clothed with white hairs. Abdomen pale cinereous. Fore wings very pale fawn-colour, with some black marks along the costa, and with a blackish diffuse submarginal band, which is obsolete hindward; a blackish spot behind the orbicular one, which has

a blackish centre, and is enclosed in a fawn-coloured ringlet ; reniform blackish, hardly excavated ; a row of black marginal lunules. Hind wings whitish, with a brown discal mark and a brown border, which are darker and more clearly defined beneath. Length of the body 7 lines ; of the wings 16 lines.

a, b. Australia.

40. GRAPHIPHORA INSTIPATA.

Mas et fœm. *Cinerea ; palpi articulo 3o minimo ; antennæ simplices ; thorax fusco conspersus ; abdomen pallidum ; alæ anticæ lineis transversis nigricantibus duplicatis et undulatis, orbiculari parva alba subrotunda nigro marginata, reniformi nigra albo notata ; posticæ cinereæ, ciliis albidis.*

Male. Cinereous. Third joint of the palpi very minute. Antennæ simple. Thorax and fore wings minutely speckled with brown. Abdomen paler. Fore wings with the transverse lines blackish, double and undulating ; orbicular spot small, white, nearly round, bordered with black ; reniform black, marked with white. Hind wings cinereous, with whitish ciliæ. Length of the body 6 lines ; of the wings 14 lines.

a. Tasmania. Presented by R. Butler, Esq.

b, c. Australia.

41. GRAPHIPHORA COMPTA.

Mas. *Purpurascens-rufa, palpi apice albidis ; abdomen cinereum, apice rufescens ; alæ anticæ lineis transversis obscurioribus indistinctis, exteriore testacea, marginali undulata fusca, costali pallida ; maculis orbiculari et reniformi distinctis, gutta postica interiore nigricante, margine exteriore interrupte fusco ; posticæ obscure cinereæ, ciliis pallide rufescentibus.*

Male. Red, with an indistinct purplish tinge. Palpi whitish towards the tips. Abdomen cinereous, reddish towards the tips. Fore wings with a pale costal line ; transverse lines darker and indistinct, excepting the testaceous exterior line and the brown undulating marginal one ; spots paler along the brown borders, which are incomplete ; a blackish dot behind the orbicular spot, which is round and rather large ; reniform of the usual shape. Hind wings dark cinereous, with pale reddish ciliæ. Length of the body 7 lines ; of the wings 16 lines.

a. New South Wales. From Mr. Wood's collection.

New Zealand.

42. GRAPHIPHOGA IMPLEXA.

Fœm. *Nigro-cinerea, subtus cinerea; palpi albidi; abdomen cinereum; alæ anticæ marginem anteriorem versus pallidiores, lineis atris transversis undulatis, exteriori strigisque marginalibus connexis, orbiculari et reniformi testaceis, illa rotunda minima atro marginata, hac e striga arcuata albida ex parte occulta; posticæ fusco-cinereæ.*

Female. Cinereous-black, cinereous beneath. Palpi whitish. Abdomen cinereous. Fore wings with deep black transverse undulating lines, of which the exterior one is connected with a row of deep black streaks; claviform mark obsolete; orbicular and reniform testaceous, the former round, very small, bordered with deep black, the latter partly concealed by a curved whitish streak; space between the exterior border and the exterior line somewhat paler than the wing elsewhere. Hind wings brownish-cinereous. Length of the body 6 lines; of the wings 14 lines.

a, b. New Zealand. Presented by the Rev. W. Colonso.

c. New Zealand. Presented by Lieut. Smith.

Country unknown.

43. GRAPHIPHORA INTERMIXTA.

G. neglectæ affinis; alæ anticæ fusco-cinereæ, plus quadratæ, basi discoque violaceo-cinereis, linea subterminali flavesciente, maculis magnis, reniformi distincta flava cinereo et nigricante notata.

Noctua intermixta, Guen. Noct. i. 337, 566.

44. GRAPHIPHORA SUBDOLENS.

Mas. *Ferruginea; antennæ serratæ; abdomen fusco-cinereum; alæ anticæ fasciis indistinctis diffusis undulatis nigrificantibus, maculis pallidioribus subobsoletis; posticæ fusco-cinereæ.*

Male. Ferruginous. Antennæ serrated. Abdomen brownish cinereous. Fore wings with indistinct somewhat diffuse blackish undulating bands; spots nearly obsolete, but apparently of the usual form, and somewhat paler than the rest of the wing. Hind wings brownish cinereous. Length of the body 8 lines; of the wings 18 lines.

a. ———?

Genus 12. OCHROPLEURA.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, ascendentes; articulus 3us brevissimus, conicus. Antennæ corporis dimidio valde longiores. Abdomen alas posticas triente superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ pallidæ, apice subrotundatæ, margine exteriori subconvexo perparum obliquo. *Mas.*—Antennæ subciliatæ.

Ochropleura, Hübn. *Verz. Schm.* 223.

Ogygia, p., Hübn. *Verz. Schm.*

Megasema, p., Hübn. *Verz. Schm.*

Noctua, p., *Treit.*; *Guen. Noct.* i. 328.

Chersotis, p., *Boisd.*

Graphiphora, p., *Steph.*

Body stout. Proboscis moderately long, Palpi stout, ascending above the vertex; third joint minute, conical, not one-fourth of the length of the second. Antennæ much more or very much more than half the length of the body. Abdomen extending hardly or as much as one-third of its length beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings pale and straight in front, somewhat rounded at the tips, slightly convex, and very slightly oblique along the exterior border. *Male.*—Antennæ minutely ciliated.

1. OCHROPLEURA PLECTA.

Rubra; caput, thoracis fascia costaque pallide testacea; thorax linea transversa antica nigra; abdomen testaceum; alæ anticæ vitta discali punctisque marginalibus nigris, ocellis duobus discalibus cinereis albo cinctis, lineis duabus transversis nigricantibus, fascia exteriori testacea; posticæ albidæ, ciliis testaceis.

———, *Engr. Pap. d'Eur.* 419, a—f.

Phalæna-Noctua plecta, *Linn. Syst. Nat.* 2851, 157; *Faun. Suec.* 1216. *Gmel. ed. Syst. Nat.* i. 5, 2542.

Noctua plecta, *Wien. Verz.* 77, 6. *Fabr. Sp. Ins.* ii. 224, 8; *Mant. Ins.* ii. 154, 139; *Ent. Syst.* iii. 1, 65, 182. *Kléem, Beit. Ins. Gesch.* i. pl. 23. *Esp. Schm.* iv. pl. 143, f. 4, 5. *Bork. Eur. Schm.* iv. 478, 190. *Sepp, Ins.* iv. pl. 28.

Hübner. Eur. Schmett. Noct. pl. 25, f. 117. *Haw. Lep. Brit.* 193. *Treit. Schmett.* v. 248, 18. *God. Hist. Nat. Léop. Fr.* v. *Meig. Handb.* 156, 21; *Syst. Besch.* iii. 103, 38, pl. 93, f. 1. *Guen. Noct.* i. 326, 540.

Ochropleura plecta, *Hübner. Verz. Schmett.* 223, 2233.

Chersotis plecta, *Boisd. Ind. Méth.* 104, 772.

Graphiphora plecta, *Steph. Ill. Brit. Ent. Haust.* ii. 136. *Westw. and H. Brit. Moths*, i. 133, pl. 26, f. 7, 8.

a—i. England. From Mr. Stephens' collection.

j—m. England.

n—q. Europe. From M. Becker's collection.

r. Sicily. From Mr. Melly's collection.

s. Trenton Falls, New York. Presented by E. Doubleday, Esq.

t, v. Nova Scotia. From Lieut. Redman's collection.

2. OCHROPLEURA LEUCOGASTER.

Pallide testacea; thorax fasciis duabus nigricantibus; alæ anticæ cinereo-rubidæ, costa lata pallide testacea, vitta discali nigra ocellis duobus albidis interrupta, punctis exterioribus fuscescentibus, guttis marginalibus nigris albido marginatis.

Noctua leucogaster, *Frey. Neu. Beit. Schmett.* i. 38, pl. 21. *Treit. Schmett. Eur. Suppl.* x. 37. *Boisd. Icon. Léop. d'Eur.* pl. 83. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 222, pl. 20. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 327, 541. *Herr.-Schæff. Schmett. Eur.* i. 327, 541.

Chersotis leucogaster, *Boisd. Ind. Méth.* 104, 773.

South France. Dalmatia. Sicily.

3. OCHROPLEURA MUSIVA.

Ferruginea; thorax fascia antica lata nigro-fusca albido marginata; abdomen testaceo-cinerascens; alæ anticæ vitta costali et macula orbiculari connexis albidis, striga discali interrupta atra, reniformi albido marginata; posticæ albæ, margine tenui cinereo.

Noctua musiva, *Hübner. Eur. Schmett. Noct.* pl. 25, f. 118. *Treit. Schmett. Eur.* v. 247, 17. *Dup. Hist. Nat. Léop. Fr.* ii. 212, pl. 64. *Meig. Syst. Besch.* iii. 102, 36, pl. 112, f. 8. *Eversm. Faun. Volg-Ural.* 213. *Boisd. Ind. Méth.* 774. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 327, 543.

Graphiphora musiva, *Steph. Ill. Brit. Ent. Haust.* iii. 136.

Ochropleura musiva, *Hübner. Verz. Schmett.* 223, 2232.

Chersotis musiva, *Boisd. Ind. Méth.* 104, 774.

a—d. Europe. From M. Becker's collection.

4. OCHROPLEURA FLAMMATRA.

Fuscescens ; thorax fascia antica lata atra ; abdomen cinerascens ; alæ anticae lineis transversis undulatis nigro-fuscis, striga basali informi atra, costa, orbiculari et reniformi canescentibus ; posticæ cinereæ.

———, *DeVill. Lin. Ent.* 346, f. 20.

Phalæna-Noctua flammata, *Gmel. ed. Syst. Nat.* i. 5, 2543, 1034.

Noctua flammata, *Wien. Verz.* 80, 1. *Fabr. Mant. Ins.* ii. 155, 147 ; *Ent. Syst.* iii. 2, 67, 190. *Bork. Eur. Schmett.* iv. 545, 220. *Hübner. Eur. Schmett. Noct.* pl. 26, f. 124. *Treit. Schmett. Eur.* v. 245, 16. *God. Hist. Nat. Léop. Fr.* ii. 169, pl. 60, f. 4. *Meig. Syst. Besch.* iii. 102, 36, pl. 92. *Boisd. Ind. Méth.* 104, 776. *Guen. Ann. Soc. Ent. Fr.* vi. 241 ; *Noct.* i. 327, 544.

Ogygia flammata, *Hübner. Verz. Schmett.* 225, 2252.

South Europe. Brazil.

a, b. Europe. From M. Becker's collection.

d, e. North India. Presented by General Hearsay.

f. North India. Presented by E. Doubleday, Esq.

North America.

5. OCHROPLEURA OCHROGASTER.

O. plectæ affinis, paullo major ; thorax antice et abdomen ochraceo-alba ; alæ anticae rufæ, pallidiores, linea subterminali e nebula nigricante, punctis marginalibus rotundatis non approximatis, ciliis interlineatis, maculis majoribus, reniformi minus arctata ; vena mediana alba ; posticæ guttis marginalibus.

Noctua ochrogaster, *Guen. Noct.* i. 327, 542.

North America.

West Indies.

6. OCHROPLEURA?? APRONIA.

Fusca; alæ luteo ciliatæ; anticæ purpurascente cinereæ lineis transversis fuscis, plagis guttisque nigris, extus fuscae.

Phalæna-Noctua Apronia, Cram. Pap. Exot. iv. 222, pl. 396, f. E.

Megasema Apronia, Hübn. Verz. Schmett. 222, 2228.

Berbice.

7. OCHROPLEURA VICARIA.

Fœm. Rufescens, vertice, thoracis fascia abdomineque albido-testaceis; alæ anticæ costa albido-testacea, striga basali sub-interrupta nigra orbicularem parvam subrotundam includente, reniformi distincta, lineis transversis indistinctis, guttis marginalibus nigris; posticæ albæ.

Female. Reddish. Vertex whitish testaceous, Thorax with a band of the same hue, and with some brown hairs in front. Abdomen whitish testaceous. Fore wings whitish testaceous along three-fourths of the length of the costa, with a black slightly interrupted basal stripe, which includes the orbicular spot, and extends as far as the reniform; orbicular nearly round, rather small; reniform of the usual shape; transverse lines indistinct; a row of black marginal dots. Hind wings white. Length of the body 5 lines; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

Australia.

8. OCHROPLEURA TORTISIGNA.

Cervina; thorax posticus fuscus; alæ anticæ ferrugineæ, nigricante suffusæ, venis nigricantibus, plagis duabus elongatis discalibus, striga longa discali nigro-fusca extus dilatata, orbicularem et reniformem albas includente, orbiculari ovata perparva, reniformi e linea contorta, costa albida; posticæ pallide testaceæ, marginibus latis fuscis.

Nearly allied to *O. plecta*. Head and fore part of the thorax fawn-colour. Thorax brown hindward. Fore wings ferruginous, with a blackish tinge; two large fusiform marks in the disk; veins blackish; a long blackish brown streak in the disk, widening outwards and containing the orbicular and reniform spots, which

are white; orbicular oval, very small; reniform consisting of a contorted line; costa whitish. Hind wings pale testaceous, with broad brown borders. Length of the body 5 lines; of the wings 12 lines.

a. Tasmania. Presented by Morton Allport, Esq.

Genus 13. SEGETIA.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, pilosi, porrecti, caput vix superantes; articulus 2us 3o quadruplo longior. Antennæ corporis dimidio valde longiores. Abdomen alas posticas vix superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore vix obliquo. *Mas.*—Antennæ crenulatæ, subciliatæ.

Segetia, *Steph. Ill. Brit. Ent. Haust.* ii. 153.

Sideridis, p., *Hüb. Verz. Schm.* 232.

Noctua, p., *Treit.*; *Dup.*; *Boisd.*; *Guen.*

Body stout. Proboscis moderately long. Palpi stout, pilose, porrect, not prominent; third joint less than one-fourth of the length of the second. Antennæ very much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs stout; hind tibiæ with four long spurs, moderately broad. Fore wings straight in front, somewhat rounded at the tips, hardly oblique along the exterior border. *Male.*—Antennæ crenulate, minutely ciliated.

1. SEGETIA XANTHOGRAPHA.

Cervina; abdomen cinerascens; alæ anticæ lineis transversis guttularibus indistinctis, orbiculari et reniformi testaceo marginatis non bene determinatis; posticæ albidæ cinereo marginatæ (mas) aut cinereæ (fœm.)

Var. *Alæ anticæ maculis totis testaceis.*

Noctua xanthographa, *Wien. Verz.* 83, 20. *Hüb. Eur. Schm.* 138. *Treit. Schm.* *Eur.* v. 196. *Dup. Hist. Nat. Léop. Fr.* iii. 107, pl. 80, f. 2. *Frey. Neu. Beit. Schm.* iii. pl. 250. *Boisd. Ind. Méth.* 101, 753. *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 337, 567.

Segetia xanthographa, *Steph. Ill. Brit. Ent. Haust.* ii. 153. *Westw. & H. Brit. Moths*, i. 143, pl. 29, f. 9.

Noctua tetragona, *Haw. Lep. Brit.* 124.

Sideridis xanthographa, *Hübner. Verz. Schmett.* 232, 2328.

a—*s.* England. From Mr. Stephens' collection.

t—*y.* England.

z—*cc.* Europe. From M. Becker's collection.

Fam. 6. ORTHOSIDÆ.

Corpus robustum aut validum. Proboscis mediocriter longa aut brevis. Palpi subrecti, sæpissime breves et porrecti, raro ascendentes; articulus 3us brevis, conspicuus. Antennæ ciliatæ, rarissime nudæ, *maris* nonnunquam serratæ aut subpectinatæ. Thorax raro cristatus. Abdomen sæpissime glabrum. Pedes mediocres, raro spinosi. Alæ anticæ coloribus variis, posticas obtegentes, linea submarginali sæpissime recta.

Orthosidæ, *Guen. Ann. Soc. Ent. Fr.* vi. 224; *Noct.* i. 338.

Body robust or rather stout. Proboscis short or moderately long. Palpi almost straight, generally short and porrect, rarely ascending; third joint short, distinct. Antennæ ciliated, very rarely bare, occasionally serrated or slightly pectinated in the male. Thorax rarely crested. Abdomen very generally smooth. Legs moderately long, rarely spinose. Fore wings with various colours, entirely covering the hind wings in repose; submarginal transverse line very generally straight.

A. Tibiæ posticæ non dense fasciculatæ.

A. Alæ anticæ margine exteriore non angulato.

a. Thorax non lanuginosus.

a. Alæ anticæ margine exteriore non denticulato.

i. Tibiæ posticæ calcaribus parvis.

* Abdomen lateribus pilosissimis.

10. *HYPOTRIX*, *Guen.*

** Abdomen lateribus non pilosissimis.

† Alæ anticæ margine exteriore non undulato.

‡ Thorax non cristatus.

§ Palpi brevissimi. - 1. *PANOLIS*, *Hübner.*

§§ Palpi non brevissimi.

× Alæ anticæ mediocriter latæ.

6. *SEMIOPHORA*, *Steph.*

×× Alæ anticæ latiusculæ.

19. *MESOGONA*, *Boisd.*

- ‡ Thorax cristatus.
 § Caput non conicum. 14. DASYCAMPa, *Guen.*
 §§ Caput antice conicum. 15. HOPORINA, *Boisd.*
 †† Alæ anticæ margine exteriore undulato.
 † Palpi caput sat superantes. 16. XANTHIA, *Ochs.*
 ‡ Palpi caput vix superantes. 18. CIRRÆDIA, *Guen.*
 ii. Tibiæ posticæ calcaribus longis.
 * Antennæ omnino nudæ. - 2. EOGENA, *Guen.*
 ** Antennæ non omnino nudæ.
 † Palporum articulus 2us 3o triplo longior.
 ‡ Abdomen alas posticas vix superans. 3. PACHNOBIA, *Guen.*
 ‡ Abdomen alas posticas sat superans. 11. ORTHODES, *Guen.*
 †† Palporum articulus 3us minutus aut minimus.
 † Alæ anticæ non falcatæ.
 § Alæ anticæ margine exteriore valde undulato. - 24. DABARITA, *Walk.*
 §§ Alæ anticæ margine exteriore convexo.
 × Antennæ maris subciliatæ. 4. CERAMICA, *Guen.*
 ×× Antennæ maris subpectinatæ. 17. XESTIA, *Hüb.*
 §§§ Alæ anticæ margine exteriore non convexo.
 × Antennæ maris plus minusve pectinatæ. - 7. TENIOCAMPa, *Guen.*
 ×× Antennæ maris non pectinatæ.
 = Palpi caput vix superantes. 8. ORTHOSIA, *Ochs.*
 == Palpi caput non superantes.
 + Alæ anticæ sat longæ. 9. ANCHOSCELIS, *Guen.*
 ++ Alæ anticæ breviusculæ. 12. CERASTIS, *Ochs.*
 13. EUPSILIA, *Hüb.*
 b. Alæ anticæ margine exteriore denticulato. 5. HYSSIA, *Guen.*
 B. Thorax lanuginosus. - - -
 B. Alæ anticæ margine exteriore angulato.
 A. Tibiæ posticæ calcaribus longis.

a. *Antennæ maris* simplices. - - 20. *CAREA*, *Walk.*

b. *Antennæ maris* pectinatæ. - 21. *EPISPARIS*, *Walk.*

B. *Tibiæ posticæ* calcaribus longissimis. 22. *AMARNA*, *Walk.*

B. *Tibiæ posticæ* dense fasciculatæ. - 23. *EPITAUSA*, *Walk.*

Genus 1. PANOLIS.

Corpus robustum. Caput brevissimum. Proboscis mediocriter longa. Palpi brevissimi. Antennæ filiformes, corporis dimidio multo longiores. Abdomen alas posticas perpaullo superans. Pedes validi, pilosi; tibiæ posticæ calcaribus parvis. Alæ sat angustæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore sat obliquo. *Mas.*—Antennæ vix crenulatæ.

Panolis, *Hübner. Verz. Schmett.* 214; *Steph. Cat. Brit. Lep.*

Trachea, *Ochs. Syst. Gloss. Schmett. von Eur.* iv.; *Treits.*; *Boisd.*;

Guen. Ann. Soc. Ent. Fr. viii. 475; *Noct.* i. 339; *Herr.-Schæff.*

Achatia, *Curt.*; *Steph.*

Illarus, *Boisd.*

Xylina, p., *Meig.*

Body stout. Head very short. Proboscis moderately long. Palpi very short. Antennæ filiform, very much more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs stout, pilose; hind tibiæ with four short spurs. Wings rather narrow. Fore wings straight in front, somewhat rounded at the tips, rather oblique along the exterior border. *Male.*—Antennæ hardly crenulate.

1. PANOLIS PINIPERDA.

Rufo-cervina; thorax albo varius; abdomen cinereum; alæ anticæ venis, macula, annulo, fascia exteriore obliqua ciliisque apud venas albis; posticæ cinereæ, ciliis albis.

Bombyx spreta, *Fabr. Mant. Ins.* ii. 124, 139; *Ent. Syst.* iii. 1, 455, 151.

———, *Engr. Pap. d'Eur.* 489, a—f. *Schæff. Icon.* ii. pl. 154.

Noctua piniperda, *Loschge, Naturf.* xxi. 27, pl. 11. *Sepp, Ins.* iii. pl. 34. *Esp. Schmett.* iv. pl. 125, f. 1—6. *Bork. Eur. Schmett.* iv. 443, 178.

Trachea piniperda, *Treit. Schmett. Eur.* v. 76, 4. *Dup. Hist. Nat. Léop. Fr.* vi. 436, pl. 100, f. 2, 3. *Ratz. Forst. Ins.* ii. 170, pl. 10. *Boisd. Ind. Méth.* 142, 1153. *Guen. Ann. Soc. Ent. Fr.* vi. 241; *Noct.* i. 340, 568. *Herr.-Schæff. Eur. Schmett.* ii. 191, 32. *Stainton, Manual*, 240.

- Noctua flammea*, *Wien. Verz.* 87, 3. *Fabr. Mant. Ins.* ii. 164, 198 ; *Ent. Syst.* iii. 2, 85, 248. *Hübner. Eur. Schmett. Noct.* pl. 101, f. 476.
- Phalæna-Noctua flamma*, *Gmel. ed. Syst. Nat.* i. 5, 2568, 1150.
- Phalæna-Noctua sprete*, *Gmel. ed. Syst. Nat.* i. 5, 2435, 567.
- Phalæna piniperda*, *Kob. et Panz. Baumt. Nadeln*, 51, pl. 1, f. 1—12.
- Noctua ochroleuca*, *Hübner. Eur. Schmett. Noct.* pl. 19, f. 91.
- Xylina piniperda*, *Meig. Handb.* 165, 42 ; 42 ; *Syst. Besch.* iii. 186, 11, pl. 110, f. 4.
- Noctua telifera*, *Payk. Act. Holm.* xlviii. 58, pl. 2, f. 2, 3.
- Panolis piniperda*, *Steph. Cat. Brit. Lep.* 74.
- Phalæna-Noctua Pini*, *Vill. Ent.* ii. 278.
- Achatia piniperda*, *Curt. Brit. Ent.* iii. pl. 117. *Steph. Ill. Brit. Ent. Haust.* iii. 19.
- Panolis flammea*, *Hübner. Verz. Schmett.* 214, 2134.
- a—l.* England. From Mr. Stephens' collection.
- m—r.* England.
- s—x.* Europe. From M. Becker's collection.

Genus 2. EOGENA.

Corpus validum. Proboscis brevis. Palpi graciles, breves, caput non superantes. Antennæ simplices, setaceæ, omnino nudæ. Abdomen alas posticas paullo superans. Pedes sat validi ; tibiæ posticæ calcaribus longis. Alæ latæ ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori vix obliquo.

Eogena, *Guen. Noct.* i. 341.

Body stout. Proboscis short. Palpi slender, short, not extending beyond the head. Antennæ simple, testaceous, quite bare. Abdomen extending a little beyond the hind wings. Legs rather stout ; hind tibiæ with four long spurs. Wings broad. Fore wings straight in front, rounded at the tips, hardly oblique along the exterior border.

This genus seems to be allied to the *Notodontidæ*.

1. EOGENA CONTAMINEI.

Roseo-cervina ; ciliæ concolores ; abdomen subtestaceum ; alæ anticæ punctis nonnullis discalibus fuscis ; posticæ pallidissime subroseæ, basi albicantes.

Noctua Contaminei, *Kindermann*; *Eversm. Bull. Soc. Imp. Nat. Mosc.* xx. 3, 77, 13, pl. 5, f. 6.

Eogena Contaminei, *Guen. Noct.* i. 341, 569.

Sarepta.

Genus 3. PACHNOBIA.

Corpus vix robustum. Proboscis brevis. Palpi porrecti, caput superantes; articulus 2us 3o cylindrico triplo longior. Antennæ corporis dimidio longiores. Abdomen alas posticas vix superans. Pedes mediocriter validi; tibiæ posticæ calcaribus longis. Alæ latæ; anticæ apud costam rectæ, apice subrectangulatæ, margine exteriori subconvexo. *Mas.*—Antennæ mediocriter pectinatæ.

Pachnobia, *Guen. Noct.* i. 341.

Diarsia, p., *Hübner. Verz. Schmett.* 222.

Orthosia, p., *Boisd.*; *Dup.*; *Herr.-Schæff.*; *Steph.*

Hadena, p., *Zett.*

Agrotis, p., *Herring.*

Body hardly stout. Proboscis short. Palpi porrect, extending somewhat beyond the head; third joint cylindrical, about one-third of the length of the second. Antennæ more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Wings broad. Fore wings straight in front, almost rectangular at the tips, slightly oblique along the exterior border. *Male.*—Antennæ moderately pectinated.

1. PACHNOBIA CARNEA.

Fusco-cinerascens; alæ anticæ lineis transversis angulosis canis et nigricantibus, striga discali nigro-fusca, orbiculari albida subovata maxima, reniformi albido marginata strigaeque cer-vino combinatis.

Noctua carnea, *Thunb. Diss.* iv. 56; *Mus. Acad. Upsal.* vi. 72.

Noctua ampla, *Hübner. Eur. Schmett. Noct.* f. 425.

Noctua tecta, *Hübner. Eur. Schmett. Noct.* f. 377.

Diarsia carnea, *Hübner. Verz. Schmett.* 222, 2223.

Orthosia carnea, *Treit. Schmett.* 226. *Dup. Hist. Nat. Léop. Fr.* iii. 196, pl. 62. *Boisd. Ind. Méth.* 142, 1149. *Zett. Ins. Lapp.* 945. *Herr.-Schæff. Eur. Schmett.* ii. 198, 49; ii. *Noct.* pl. 78, f. 401.

Graphiphora carnea, Ahrens, *Faun. Ins. Eur.* vi. fig. 19.

Pachnobia carnea, Guen. *Noct.* i. 342, 570.

Sweden. Lapland.

2. PACHNOBIA HYPERBOREA.

Alæ anticæ cinereæ, parce fusco maculatæ nigroque subirroratæ, strigis duabus repandis obscuris externe cano marginatis, intra quas maculis ordinariis ferrugineo-tinctis positis; posticæ subcinereæ.

Noctua hyperborea, Dalm. MSS.

Orthosia hyperborea, Boisd. *Ind. Méth.* 142, 1148.

Hadena hyperborea, Zett. *Ins. Lapp.* 938, 6.

Pachnobia hyperborea, Guen. *Noct.* i. 342, 571.

Lapland.

3. PACHNOBIA CARNICA.

Cinerea, P. hyperboreæ affinis; alæ anticæ angustiores, plus nitescentes, apice acutiores, maculis minoribus, reniformi minus rotundata, linea subterminali e maculis cuneatis nigricantibus; posticæ pallidiores.

Agrotis carnica, Herring, *Ent. Zeit. Stett.* vii. 236, 5.

Agrotis egregia, Lederer.

Pachnobia carnica, Guen. *Noct.* i. 342, 572.

Agrotis alpina, Westw. & H. *Brit. Moths*, i. 118, pl. 23, f. 13.

Hadena hyperborea? Dalm. MSS. Zett. *Ins. Lapp.* 938.

Orthosia? hyperborea, Steph. *Cat. Lep. Brit. Mus.* 77, 14.

Scotland. North Europe.

4. PACHNOBIA GLACIALIS.

Alæ anticæ cæsius, rubro, hepatico, et fusco mixtæ, stigmatibus magnis pallidis.

Orthosia glacialis, Kahr; Herr.-Schæff. *Eur. Schmett.* ii. 198, 50; ii. *Noct.* pl. f. 421—424.

Pachnobia glacialis, Guen. *Noct.* i. 343, 573.

Swiss Alps.

Genus 4. CERAMICA.

Corpus mediocriter robustum. Proboscis mediocriter longa. Palpi porrecti, pilosi, caput vix superantes; articulus 3us longiconicus, minimus. Antennæ corporis dimidio multo longiores. Abdomen alas posticas vix superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice subacuminatæ, margine exteriore convexo sat obliquo. *Mas.*—Antennæ subciliatæ, vix serratæ.

Ceramica, *Guen. Noct. i. 343.*

Body moderately stout. Proboscis moderately long. Palpi porrect, pilose, hardly extending beyond the head; third joint elongate-conical, not more than one-sixth of the length of the second. Antennæ much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, slightly acuminate at the tips, convex and rather oblique along the exterior border. *Male.*—Antennæ minutely ciliated, hardly serrated.

South America.

1. CERAMICA EXUSTA.

Mas. Ferruginea; abdomen pallide ferrugineum, basi cinereum; alæ anticæ costa vittaque discali diffusa nigricantibus; posticæ albæ.

Ceramica exusta, *Guen. Noct. i. 344, 574.*

a. New York. Presented by E. Doubleday, Esq.

2. CERAMICA VINDEMIALIS.

Rufa; abdomen canescens; alæ anticæ unicolores, maculis lineisque nullis; posticæ pallide rufescentes, ciliis albidis.

Ceramica vindemialis, *Guen. Noct. i. 344, 576.*

St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

3. CERAMICA V-ALBUM.

Fusca; abdomen cinereum; alæ anticæ cinereo variæ, lineis transversis obscurioribus, macula orbiculari minima alba, reniformi sat magna albido ex parte marginata; posticæ pallidiores, ciliis canis.

Ceramica V-album, *Guen. Noct. i. 345, 577.*

a. East Florida. Presented by E. Doubleday, Esq.

Australia:

4. CERAMICA MARYX.

Fœm. Nigro-rubra; thorax villosus, subhirsutus; alæ anticæ plagis nonnullis subpallidioribus, lineis transversis indistinctis, macula reniformi e squamis nonnullis albidis; posticæ obscure cinereæ, linea duplici marginali ciliisque pallidioribus, subtus albidæ, costa lineaque mediana rubris.

Ceramica Maryx, *Guen. Noct. i. 344, 575.*

Australia.

Genus 5. HYSSIA.

Corpus robustum. Proboscis breviuscula. Palpi graciles, incumbentes; articulus 2us hirsutus; 3us pilosus, 2o confusus. Antennæ graciles, breviusculæ, simplices, maris pubescentes. Thorax subrotundus, lanuginosus. Abdomen læve, carinatum, apice fasciculatum. Pedes graciles, mediocriter longi; tibiæ subpilosæ, non spinosæ. Alæ anticæ apud costam subrectæ, apice acuminatæ, margine exteriori integro subobliquo, maculis tribus optime determinatis, linea transversa submarginali conspicua.

Hyssia, *Guen. Noct. i. 345.*

Orthosia, p., *Herr.-Schæff.*

Body stout. Proboscis rather short. Palpi slender, incumbent; second joint hirsute; third pilose, hardly distinguishable from the second. Antennæ slender, rather short, simply pubescent in the male. Thorax nearly round, lanuginose. Abdomen smooth, keeled, tufted at the tip. Legs slender, of moderate length; tibiæ slightly pilose, without spines. Fore wings nearly straight along the fore border, acuminate at the tips, entire and slightly oblique along the exterior border; the three spots very distinct, and the submarginal transverse line well defined.

1. HYSSIA CAVERNOSA.

Subviolacea; alæ anticæ linea undulata basim versus flavida maculis nigris, maculis tribus discalibus nigris, margine interiore flavido.

Noctua cavernosa, Eversm. Bull. Soc. Imp. Nat. Mosc. 1842, 3; Faun. Volg-Ural. 256.

Orthosia ornata, Friv.; Herr.-Schæff. Schmett. Eur. ii. Noct. pl. 10, f. 46, 47.

Hyssia cavernosa, Guen. Noct. i. 345, 578.

Orthosia cavernosa, Herr.-Schæff. Eur. Schmett. ii. 205, 79.

Casan. Ural District.

Genus 6. SEMIOPHORA.

Corpus robustum, pilosum. Proboscis mediocriter longa. Palpi porrecti, caput sat superantes; articulus 2us 3o longi-conico triplo longior. Antennæ corporis dimidio longiores. Abdomen alas posticas vix superans. Pedes validi; tibiæ posticæ calcaribus breviusculis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori mediocriter obliquo. *Mas.*—Antennæ subpectinatæ.

Episema, p., Hübn. Verz. Schmett. 224.

Orthosia, p., Boisd. Herr.-Schæff.

Semiophora, Steph. Ill. Brit. Ent. Haust. ii. 138. Westw.

Tæniocampa, p., Guen.

Body stout, pilose. Proboscis moderately long. Palpi porrect, extending somewhat beyond the head; third joint elongate-conical, about one-third of the length of the second. Antennæ more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs stout; hind tibiæ with four rather short spurs. Wings moderately broad. Fore wings with a black discal mark, straight in front, angular at the tips, moderately oblique along the exterior border. *Male.*—Antennæ slightly pectinated.

1. SEMIOPHORA GOTHICA.

Cinereo-ferruginea; alæ anticæ guttis basalibus et costalibus maculisque duabus subquadratis discalibus nigris cano ex parte marginatis, macula antica excisa, lineis transversis canescentibus; posticæ cinereæ, ciliis pallidioribus.

———, *Deg. Ins. ii. 338, pl. 5. Engr. Pap. d, Eur. 422,*

- Phalæna-Noctua gothica*, *Linn. Syst. Nat.* 851, 159. *Faun. Suec.* 1192. *Clerck, Icon.* pl. 1, f. 1. *Gmel. ed. Syst. Nat.* i. 5, 2568, 159.
- Noctua gothica*, *Fabr. Sp. Ins.* ii. 229, 102; *Mant. Ins.* ii. 164, 199; *Ent. Syst.* iii. 2, 85, 249. *Sepp. Ins.* 3, pl. 40. *Knock, Beit. Ins.* 86, pl. 4, f. 4—6. *Esp. Schmett.* iii. pl. 76, f. 1, 2. *Bork. Eur. Schmett.* iv. 484, 192. *Haw. Lep. Brit.* 69. *Treit. Schmett.* v. 1, 233, 12. *God. Hist. Nat. Léop. Fr.* v. pl. 61, f. 2. *Zett. Ins. Lapp.* 936. *Meig. Handb.* 155, 20, pl. 13, f. 1; *Syst. Besch.* iii. 100, 33, pl. 92, f. 11.
- Noctua Nun-atrum*, *Wien. Verz.* 78, 9. *Fabr. Mant. Ins.* ii. 155, 142; *Ent. Syst.* iii. 2, 66, 185. *Hübner. Eur. Schmett. Noct.* pl. 24, f. 112.
- Phalæna-Noctua Nun-atrum*, *Gmel. ed. Syst. Nat.* i. 5, 2542, 1031.
- Phalæna Sigma*, *Don. Nat. Hist. Brit. Ins.* xvi. 61, pl. 562.
- Phalæna-Noctua C-nigrum*, *Vill. Ent.* ii. 183.
- Orthosia gothica*, *Herr.-Schæff. Eur. Schmett.* ii. 196, 43. *Boisd. Ind. Méth.* 140, 1123.
- Tæniocampa gothica*, *Guen. Noct.* i. 347, 579.
- Episema gothica*, *Hübner. Verz. Schmett.* 224, 2248.
- Semiophora gothica*, *Steph. Ill. Brit. Ent. Haust.* ii. 138. *Westw. & H. Brit. Moths*, i. 134, pl. 27, f. 1.
- a—d.* England. Presented by H. Doubleday, Esq.
e—x. England. From Mr. Stephens' collection.
y—bb. Europe. From M. Becker's collection.
cc. ———?

2. SEMIOPHORA GOTHICINA.

Schistaceo-cinerea; *alæ anticæ linea undulata pallida denta, literam W obsoletam formante, marginem versus late basim versus anguste obscurius terminata, macula inter stigmata quadrata ferruginea.*

- Orthosia gothicina*, *Herr.-Schæff. Schmett. Eur.* ii. 196, 44; ii. *Noct.* pl. 26, f. 125, 126.
- Tæniocampa? gothicina*, *Guen. Noct.* i. 348, 580.
- Lapland.

3. SEMIOPHORA I-CINCTUM.

Cinereo-fusca; *abdomen cinereum*; *alæ anticæ lineis transversis albidis, umbra discali nigra, annulis duobus maximis incompletis albidis*; *posticæ cinereæ, basi pallidiores.*

Bombyx cincta, *Fabr. Mant. Ins.* ii. 155, 143. *Ent. Syst.* iii. 2, 66, 186. *Gmel. ed. Syst. Nat.* i. 5, 2542, 1032. *De Vill. Ent. Linn.*

Noctua I-cinctum, *Wien. Verz.* 78, 10. *Bork. Eur. Schmett.* iv. 508, 202. *Esp. Schmett.* iv. pl. 192, f. 5. *Hübner. Noct.* pl. 30, f. 144; *Larv. Lep.* iv. *Noct.* ii. *Gen. H.* a, b, f. 2. *Frey. Neu. Beit. Schmett.* iii. pl. 225.

Episema I-cinctum, *Hübner. Verz. Schmett.* 224, 2247.

Orthosia I-cinctum, *Treit. Schmett.* v. 1, 115, 2; *Suppl.* x. 17. *Duponch. Pap. de France*, vi. 3, pl. 85, f. 2. *Boisd. Ind. Méth.* 139, 1122. *Guen. Ann. Soc. Ent. Fr.* vi. 241; *Meig. Syst. Besch. Eur. Schmett.* iii. 59, 2, pl. 89, f. 9.

Tæniocampa I-cinctum, *Guen. Noct.* i. 348, 581.

Orthosia I-cinctum, *Herr.-Schæff. Eur. Schmett.* ii. 195, 39.

Hungary.

Genus 7. TÆNIOCAMPA.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, porrecti, pilosi, caput vix superantes; articulus 2us 3o conico quadruplo longior. Antennæ corporis dimidio longiores. Abdomen alas posticas paullo aut vix superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ sat aut mediocriter latæ; anticæ apud costam rectæ, apice plus minusve angulatæ, margine exteriori paullo aut mediocriter obliquo. *Mas.*—Antennæ subpectinatæ aut vix pectinatæ.

Cerastis, *Orthosia*, p., *Cuphanoa*, et *Monima*, *Hübner. Verz. Schmett.* 228.

Tæniocampa, *Guen. Ann. Soc. Ent. Fr.* viii. 477; *Noct.* i. 346.

Orthosia et *Cerastis*, p., *Ochs.*; *Treits.*; *Boisd.*; *Herr.-Schæff.*

Orthosia, *Glæa*, p., et *Semiophora*, *Steph.*

Body stout. Proboscis moderately long. Palpi stout, porrect, pilose, hardly extending beyond the head; third joint conical, not more than one-fourth of the length of the second. Antennæ more than half the length of the body. Abdomen extending a little or hardly beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings rather or moderately broad. Fore wings without a black discal mark, straight in front, more or less angular at the tips, slightly or moderately oblique along the exterior border. *Male.*—Antennæ slightly or hardly pectinated.

Europe.

- A. Alæ anticæ maculis albido irroratis. leucographa, *Wien. Verz.*
 B. Alæ anticæ maculis non albido irroratis.
 A. Prothorax stramineus. - - - Faceta, *Treit.*
 B. Prothorax non stramineus.
 A. Alæ anticæ maculis albido marginatis.
 a. Alæ anticæ canescentes.
 i. Alæ posticæ cinereæ. - - - opima, *Hüb.*
 ii. Alæ posticæ albæ. - - - gracilis, *Wien. Verz.*
 b. Alæ anticæ cervinæ.
 i. Alæ anticæ nigro conspersæ.
 * Alæ posticæ cinereæ. - stabilis, *Wien. Verz.*
 ** Alæ posticæ albæ, margine fusciscentis.
 miniosa, *Wien. Verz.*
 ii. Alæ anticæ nigro non conspersæ. munda, *Wien. Verz.*
 A. Alæ anticæ maculis non albido marginatis.
 a. Alæ anticæ fuscae. - - - amicta, *Donzel.*
 b. Alæ anticæ rubricosæ. - - - rubricosa, *Wien. Verz.*
 c. Alæ anticæ ferruginosæ. - - - cruda, *Wien. Verz.*
 d. Alæ anticæ cinerascens.
 i. Alæ anticæ nigro conspersæ. - Populeti, *Fabr.*
 ii. Alæ anticæ fusco conspersæ. - rorida, *Herr.-Schæff.*
 iii. Alæ anticæ non conspersæ. - instabilis, *Wien. Verz.*

1. TÆNIOCAMPA LEUCOGRAPHÆ.

Cupreo-fusca ; palpi albo conspersi ; alæ anticæ maculis lineaque undulata albido irroratæ. Mas.—*Antennæ dentibus filiformibus simpliciter ciliatis.*

Noctua leucographa, *Wien. Verz.* 21. *Bork. Eur. Schm.* 187? *Hüb. Samml. Eur. Schm.* Noct. f. 411, 572.

Orthosia leucographa, *Treit. Schm.* *Eur.* ii. 118. *Boisd. Ind. Méth.* 105, 788. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 440, pl. 39.

Orthosia Lepetitii, *Boisd. Icon Léop. d'Eur.* pl. 83, f. 2.

Tæniocampa leucographa, *Guen. Ann. Soc. Ent. Fr.* vi. 239; *Noct.* i. 348, 582.

Orthosia leucographa, *Herr.-Schæff. Eur. Schm.* ii. 197, 45.

Cerastis leucographa, *Hüb. Verz. Schm.* 228, 2289.

France. Germany.

a. England. Presented by H. Doubleday, Esq.

b—d. England. From Mr. Stephens' collection.

2. TÆNIOCAMPA FACETA.

Fusca; caput, prothorax et macula orbicularis straminea; macula reniformis ferruginea.

Orthosia Faceta, Treit. Schmett. Eur. Suppl. 35. Herr.-Schæff.

Eur. Schmett. ii. 197, 46; ii. Noct. pl. 20, f. 98, 99.

Tæniocampa Faceta, Guen. Noct. i. 349, 583.

Naples, Sicily.

3. TÆNIOCAMPA AMICTA.

Fœm. Alæ anticæ fusæ, nitidæ, maculis ordinariis subnotatis; posticæ cinereo infuscatæ; caput et prothorax subcinerea; thorax fuscus.

Orthosia amicta, Donzel, Ann. Soc. Ent. Fr. 2me Sér. v. 527, 2, pl. 8, No. 1, f. 3.

Tæniocampa amicta, Guen. Noct. i. 349, 584.

Hyères.

4. TÆNIOCAMPA RUBRICOSA.

Albido-rubiginea; abdomen ferrugineum; alæ anticæ lituris costalibus lineisque transversis undulatis obscurioribus; posticæ canescentes, marginibus vix rubiginosis.

———, *Röes. Ins. Bel. iv. pl. 21, f. 1—3. Engr. Pap. d'Eur. 513, c.*

Noctua rubricosa, Wien. Verz. M. 4. Fabr. Bork. Eur. Schmett. iv. 214. Hübn. Eur. Schmett. Noct. f. 430.

Orthosia rubricosa, Treit. Schmett. Eur. ii. 396. Dup. Hist. Nat. Léop. Fr. iii. 99, pl. 79. Boisd. Ind. Méth. 141, 1138.

Tæniocampa rubricosa, Guen. Ann. Soc. Ent. Fr. vi. 241; Noct. i. 349, 585.

Cérastis rubricosa, Hübn. Verz. Schmett. 228, 2289.

Glæa rubricosa, Steph. Ill. Brit. Ent. Haust. ii. 160.

Noctua mucida, Esp. Schmett. iv. pl. 148, f. 4. Bork. Eur. Schmett. iv. 329.

Noctua pilicornis, Brahm, Ins. ii. 99.

Var. Noctua mista, Hübn. Eur. Schmett. Noct. f. 507.

Var. Noctua rufa, Hübn. Eur. Schmett. Noct. f. 211.

a—p. England. From Mr. Stephens' collection.

q—v. England.

u, w. Europe. From M. Becker's collection.

5. TÆNIOCAMPA INSTABILIS.

Murina ; abdomen cinereo-fuscum ; alæ anticæ lituris costalibus unaque exteriore discali nigris, orbiculari et reniformi subobsoletis ; posticæ cinereo-fusæ, ciliis pallidioribus.

———, *Röes. Ins. Bel.* i. pl. 53, f. 1—4. *Engr. Pap. d'Eur.* 414.

Phalæna-Noctua instabilis, *Gmel. ed. Syst. Nat.* i. 5, 2547, 1058.

Noctua instabilis, *Wien. Verz.* 76, 1. *Fabr. Mant. Ins.* ii. 146, 88 ; *Ent. Syst.* iii. 2, 44, 119. *Esp. Schmett.* iv. pl. 151, f. 3. *Bork. Eur. Schmett.* iv. 591, 245. *Hübner. Eur. Schmett. Noct.* pl. 35, f. 65. *Dup. Hist. Nat. Lép. Fr.* vi. pl. 81, f. 3. *Frey. Neu. Beit. Schmett.* pl. 315 ; *Ent. Zeit. Stett.* ii. 96.

Orthosia instabilis, *Hübner. Verz. Schmett.* 228, 2290. *Treit. Schmett. Eur.* v. 2, 104, 2. *Herr.-Schæff. Eur. Schmett.* ii. 202, 66. *Boisd. Ind. Méth.* 141, 1141. *Steph. Ill. Brit. Ent. Haust.* ii. 140. *Westw. & H. Brit. Moths*, i. 134, pl. 27, f. 2—4

Tæniocampa instabilis, *Guen. Noct.* i. 350, 586.

Noctua trigutta, *Esp. Schmett.* iv. pl. 147, f. 4.

Noctua contracta, *Esp. Schmett.* iv. pl. 151, f. 2.

Noctua (Orthosia) instabilis, *Meig. Handb.* 167, 50 ; *Syst. Besch.* iii. 2, 112, 53, pl. 97, f. 7.

Bombyx subsetaceus, *Haw. Lep. Brit.* 120.

Bombyx angustus, *Haw. Lep. Brit.* 77, 122.

Bombyx fuscatus, *Haw. Lep. Brit.* 70, 120.

Bombyx nebulosus, *Haw. Lep. Brit.* 71, 120.

Noctua collinita, *Esp. Schmett.* iv. pl. 152, f. 6.

a—bb. England. From Mr. Stephens' collection.

cc—ii. England.

jj, kk. Europe. From Mr. Becker's collection.

6. TÆNIOCAMPA OPIMA.

Canescens ; abdomen testaceum ; alæ anticæ annulis duobus discalibus lineaque transversa exteriore albidis fusco marginatis, fascia media lata obliqua fusca ; posticæ cinereæ, macula discali margineque subfuscescentibus.

———, *Engr. Pap. d'Eur.* 414, g, h.

Noctua opima, *Hübner. Eur. Schmett. Noct.* f. 424.

Orthosia opima, *Treit. Schmett. Eur.* ii. 219. *Eversm. Faun. Volg-Ural.* 49. *Herr.-Schæff. Eur. Schmett.* ii. 205, 76. *Boisd. Ind. Méth.* 141, 1145.

Tæniocampa opima, *Guen. Ann. Soc. Ent. Fr.* vi. 241; *Noct.* i. 352, 588.

Noctua firma, *Hübner. Samml. Eur. Schmett.* f. 676, 677.

Orthosia firma, *Hübner. Verz. Schmett.* 229, 2291.

a—f. England. From Mr. Stephens' collection.

g, h. England. From Mr. Carter's collection.

7. TÆNIOCAMPA POPULETI.

Cinerascens; *alæ anticæ nigro conspersæ, lineis duabus transversis e guttis nigris, macula apud disci apicem nigricante, orbiculari et reniformi subobsoletis*; *posticæ canescentes, ciliis albis.*

———, *Engr. Pap. d' Eur.* 414, i?

Bombyx Populeti, *Fabr. Ent. Syst.* iii. 1476, 215.

Orthosia Populeti, *Treit. Schmett. Eur.* ii. 251. *Boisd. Ind. Méth.* 141, 1146. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 311, pl. 29. *Herr.-Schæff. Eur. Schmett.* ii. 202, 65, pl. 22, f. 109. *Steph. Cat. Brit. Lep.* 75.

Tæniocampa Populeti, *Guen. Ann. Soc. Ent. Fr.* vi. 241; *Noct.* i. 353, 589.

Noctua ocularis, *Frey. Beit.* i. 168, pl. 95, f. 2.

Bombyx subplumbeus, *Haw. Lep. Brit.* 75, 121.

Orthosia gracilis, *Steph. Ill. Brit. Ent. Haust.* ii. 141.

Orthosia intermedia, *Steph. Ill. Brit. Ent. Haust.* ii. 140.

a—l. England. From Mr. Stephens' collection.

m, n. England. From Mr. Carter's collection.

8. TÆNIOCAMPA STABILIS.

Cervina aut cervino-cinerea; *alæ anticæ nigro subconsersæ, lineis transversis guttularibus nigris nonnunquam obsoletis, linea exteriore albida, orbiculari et reniformi albido marginatis sæpissime magnis*; *posticæ pallide cinereæ.*

———, *Albin, Nat. Hist. Engl. Ins.* pl. 75, a—d. *Engr. Pap. d' Eur.* 412, b. *Röes. Ins.* i. 2, pl. 53.

Noctua stabilis, *Wien. Verz.* 76, 2. *Bork. Eur. Schmett.* iv. 588, 244. *Hübner. Eur. Schmett. Noct.* pl. 36, f. 171. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 81, f. 2.

Noctua Cerasi, *Fabr. Sp. Ins.* ii. 219, 58; *Mant. Ins.* ii. 146, 87; *Ent. Syst.* iii. 2, 44, 118. *Haw. Lep. Brit.* 80.

Bombyx obliqua, *DeVill. Ent. Lin.* 147, pl. 5, f. 7.

Noctua rufannulata, *Haw. Lep. Brit.* 246.

Noctua pallida, *Haw. Lep. Brit.* 242.

Phalæna-Noctua Cerasi, *Gmel. ed. Syst. Nat.* i. 5, 2547, 1057.

Noctua (Orthosia) stabilis, *Meig. Handb.* 168, 51; *Syst. Besch.* iii. 112, 54, pl. 97, f. 5.

Bombyx obliqua, *Vill. Ent.* 147, pl. 5, f. 7.

Bombyx junctus, *Haw. Lep. Brit.* 81.

Cuphanoa stabilis, *Hüb. Verz. Schm.* 230, 2304.

Orthosia stabilis, *Treit. Schm.* v. 223, 10. *Steph. Ill. Brit. Ent. Haust.* ii. 143. *Westw. & H. Brit. Moths*, i. 137, pl. 28, f. 1. *Boisd. Ind. Méth.* 142, 1147. *Herr.-Schæff. Eur. Schm.* ii. 204, 73.

Tæniocampa stabilis, *Guen. Noct.* i. 354, 590.

a—hh. England. From Mr. Stephens' collection.

ii—nn. England.

oo, pp. Europe. From M. Becker's collection.

9. TÆNIOCAMPA RORIDA.

Pallide cinerea; alæ anticæ fusco irroratæ, signaturis obsoletissimis, stigmatе reniformi parvo nigro.

Orthosia rorida, *Herr.-Schæff. Schm.* *Eur.* ii. 206, 81; *ii. Noct.* pl. 10, f. 48.

Tæniocampa rorida, *Guen. Noct.* i. 355, 592.

Balkan Mountains.

10. TÆNIOCAMPA GRACILIS.

Cana; abdomen testaceo-albidum; alæ anticæ lineis transversis nigris guttularibus, linea transversa exteriorе albida, orbiculari et reniformi albido marginatis, hac magna nigricante, illa subrotunda; posticæ albæ, macula discali margineque fusciscentibus.

—————, *Engr. Pap. d' Eur.* 414, a—c.

Phalæna-Noctua gracilis, *Gmel. ed. Syst. Nat.* i. 5, 2548, 1068.

Noctua gracilis, *Wien. Verz.* 76, 4. *Fabr. Mant. Ins.* ii. 148, 98; *Ent. Syst.* iii. 2, 48, 132. *Bork. Eur. Schm.* iv. 597, 247. *Hüb. Eur. Schm.* *Noct.* pl. 135, f. 168. *Dup. Hist. Nat. Léop. Fr.* 141, pl. 82, f. 1. *Frey. Neu. Beit. Schm.* iv. pl. 317.

Orthosia gracilis, *Hüb. Verz. Schm.* 229, 2295. *Treit. Schm.* *Eur.* v. 217, 7. *Boisd. Ind. Méth.* 140, 1129, *Herr.-Schæff. Eur. Schm.* ii. 204, 74; *ii. Noct.* pl. 74, f. 383. *Steph. Cat. Brit. Lep.* 75.

Noctua collinita, *Esp. Schmett.* iv. pl. 152, f. 6.

Noctua lepida, *Scriba, Ins.* iii. pl. 18, f. 7. *Bork. Schmett.* iv. 249.

Bombyx sparsus, *Haw. Lep. Brit.* 122, 79.

Noctua (Orthosia) gracilis, *Meig. Syst. Besch.* iii. 114, 57, pl. 98, f. 2.

Orthosia sparsa, *Steph. Ill. Brit. Ent. Haust.* ii. 147. *Westw. & H. Brit. Moths*, i. 136, pl. 28, f. 12.

Orthosia pallida, *Steph. Ill. Brit. Ent. Haust.* ii. 143.

Tæniocampa gracilis, *Guen. Noct.* i. 355, 593.

a—q. England. From Mr. Stephens' collection.

r. England. From Mr. Carter's collection.

s—t. England.

v, u. Europe. From M. Becker's collection.

11. TÆNIOCAMPA MINIOSA.

Pallide cerrina; abdomen canum; alæ anticæ nigro conspersæ, annulis duobus discalibus pallidioribus, lineis transversis sub-obsoletis obscurioribus; posticæ albæ, atomis margineque fusciscentibus.

—————, *Engr. Pap. d'Eur.* 411, a—c.

Phalæna-Noctua miniosa, *Gmel. ed. Syst. Nat.* i. 5, 2553, 1097.

Noctua miniosa, *Wien. Verz.* 88, 14. *Fabr. Mant. Ins.* ii. 145, 85; *Ent. Syst.* iii. 2, 43, 114. *Sepp, Ins.* ii. pl. 5, f. 6, 7. *Bork. Eur. Schmett.* iv. 645, 272. *Hübner. Eur. Schmett. Noct.* pl. 36, f. 174. *Haw. Lep. Brit.* 233. *Dup. Hist. Nat. Lep. Fr.* vi. 138, pl. 81, f. 6. *Frey. Neu. Beit. Schmett.* iv. pl. 340.

Orthosia miniosa, *Treit. Schmett. Eur.* v. 228, 12. *Herr.-Schæff. Eur. Schmett.* ii. 201, 61. *Boisd. Ind. Méth.* 142, 1150. *Steph. Ill. Brit. Ent. Haust.* ii. 144. *Westw. & H. Brit. Moths*, i. 137, pl. 28, f. 2, 3.

Tæniocampa miniosa, *Guen. Noct.* i. 356, 594.

Monima miniosa, *Hübner. Verz. Schmett.* 229, 2296.

Bombyx rubricosa, *Esp. Schmett.* iii. pl. 75, f. 3, 4.

a—j. England. From Mr. Stephens' collection.

k—m. England.

n—q. Europe. From M. Becker's collection.

12. TÆNIOCAMPA MUNDA.

Cervina ; abdomen cinerascens ; alæ anticæ lineæ transversa exteriore albida guttis paucis nigris conjuncta, orbiculari et reniformi albido marginatis, hac postice nigro marginata, illa subovata obliqua ; posticæ, macula discali fusca, ciliis pallidis.

—————, *Engr. Pap. d'Eur.* 396, a—c.

Phalæna-Noctua munda, *Gmel. ed. Syst. Nat.* i. 5, 2548, 1065.

Noctua munda, *Wien. Verz.* 76, 7. *Fabr. Mant. Ins.* ii. 147, 95 ; *Ent. Syst.* iii. 2, 48, 129. *Esp. Schmett.* iii. pl. 52, f. 6. *Bork. Eur. Schmett.* iv. 603, 252. *Hübner. Eur. Schmett. Noct.* pl. 45, f. 166.

Orthosia munda, *Hübner. Verz. Schmett.* 229, 2293. *Treit. Schmett. Eur.* v. 208, 3. *Frey. Neu. Beit. Schmett.* iv. pl. 328. *Steph. Ill. Brit. Ent. Haust.* ii. 141. *Westw. & H. Brit. Moths*, i. 135, pl. 27, f. 1. *Herr.-Schæff. Eur. Schmett.* ii. 202, 64. *Boisd. Ind. Méth.* 141, 1140.

Tæniocampa munda, *Guen. Noct.* i. 356, 595.

Noctua lota, *Dup. Hist. Nat. Léop. Fr.* vi. 111, pl. 80, f. 3.

Noctua genuina, *Bork. Eur. Schmett.* iv. 705, 311.

Bombyx bimaculatus, *Haw. Lep. Brit.* 121, 74.

Bombyx geminatus, *Haw. Lep. Brit.* 121, 73.

Noctua (Orthosia) munda, *Meig. Syst. Besch.* iii. 113, 55, pl. 98, f. 1.

a—o. England. From Mr. Stephens' collection.

p—t. England.

v, u. Europe. From M. Becker's collection.

13. TÆNIOCAMPA CRUDA.

Ferrugineo-cinerea ; palpi extus nigri ; abdomen pallide cinerascens ; alæ anticæ ferruginosæ, lineis transversis indistinctis testaceis, macula discali cinerea testaceo marginata, punctis marginalibus nigris ; posticæ basi ciliisque pallidioribus.

—————, *Albin, Nat. Hist. Engl. Ins.* pl. 23, f. 34. *Engr. Pap. d'Eur.* 413, a, b.

Noctua cruda, *Wien. Verz.* 77, 9. *Kléem, Beit. Ins. Ges.* i. pl. 46.

Noctua pulverulenta, *Esp. Schmett.* iii. pl. 76, f. 5, 6. *Bork. Eur. Schmett.* iv. 611, 256.

Noctua ambigua, *Hübner. Eur. Schmett. Noct.* pl. 36, f. 173. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 76, f. 3.

Bombyx nanus, *Haw. Lep. Brit.* 82.

Noctua pusilla, *Haw. Lep. Brit.* 124, 250.

Orthosia cruda, *Steph. Ill. Brit. Ent. Haust.* ii. 144. *Westw. & H. Brit. Moths*, i. 137, pl. 27, f. 11; 28, f. 2, 3. *Herr.-Schæff. Eur. Schmett.* ii. 201, 60.

Orthosia ambigua, *Boisd. Ind. Méth.* 142, 1151.

Tæniocampa cruda, *Guen. Noct.* i. 357, 596.

Monima ambigua, *Hübner. Verz. Schmett.* 229, 2297.

Noctua (*Orthosia*) *cruda*, *Meig. Syst. Besch.* iii. 115, 60, pl. 99, f. 1.

a—u. England. From Mr. Stephens' collection.

w, bb. England.

cc—ee. Europe. From M. Becker's collection.

North America.

A. *Alæ anticæ maculis flavo marginatis.* - - - *alia*, *Guen.*

A. *Alæ anticæ maculis connexis.* - - - *Hibisci*, *Guen.*

B. *Alæ anticæ maculis non connexis.*

C. *Alæ anticæ maculis subobsoletis.* - *Styracis*, *Guen.*

B. *Alæ anticæ maculis non flavo marginatis.* - *oviduca*, *Guen.*

14. TÆNIOCAMPA ALIA.

T. instabili affinis, *rufo-cinerea*; *alæ anticæ ferrugineo conspersæ*, *macula orbiculari magna vix rotundata*, *reniformi arcata nigro postice conspurcata*, *lineis subobsoletis*; *posticæ nigro-cinereæ*, *ciliis costa basique rufescentibus pallidioribus.*

Tæniocampa alia, *Guen. Noct.* i. 352, 587.

New York.

15. TÆNIOCAMPA HIBISCI.

T. stabili affinis; *antennæ maris non pectinatæ*; *alæ anticæ linea submarginali magis flexuosa*, *maculis duabus discalibus semper connexis.*

Tæniocampa Hibisci, *Guen. Noct.* i. 355, 591.

Georgia.

16. TÆNIOCAMPA OVIDUCA.

T. crudæ simillima; *palpi fere unicolores*; *alæ anticæ minus conspersæ*, *linea submarginali completa tenui flavescente bene determinata*, *maculis bene determinatis nigro notatis flavo marginatis*, *reniformi extus minus excavata.*

Tæniocampa oviduca, *Guen. Noct. i. 357, 597.*

North America.

17. TÆNIOCAMPA STYRACIS.

T. instabili affinis; alæ anticæ carneo-cinereæ, fusco punctatæ, spatio mediano lato magis rufescente, maculis subobsoletis; posticæ pallide carneo-rufescentes, striga discali lineaque mediana rufo-fuscis.

Tæniocampa Styracis, *Guen. Noct. i. 357, 598.*

Georgia.

South America.

18. TÆNIOCAMPA SUBSOCIA.

T. mundæ affinis, cervina; abdomen cinerascens; alæ anticæ lineis transversis subobsoletis, guttis exterioribus nigris, macula una costali subapicali alteraque apud angulum interiorem nigris, orbiculari minima, reniformi magna; posticæ fuscæ, ciliis pallide cervinis.

Allied to *T. munda*. *Male*. Pale fawn-colour. Abdomen more cinereous. Lappets of the thorax with brown borders. Fore wings with the transverse lines almost obsolete; two more distinct exterior rows of blackish dots; a blackish spot near the tip of the costa, and another more distinct one by the interior angle, and a blackish dot near the base of the interior border; orbicular spot very small; reniform large. Hind wings brown, with pale fawn-coloured ciliæ. Length of the body 7 lines; of the wings 16 lines.

Brazil. In Mr. Saunders' collection.

New Zealand.

19. TÆNIOCAMPA IMMUNIS.

Fœm. Roseo-rufa; abdomen cinereum, apice cervinum; alæ anticæ fasciis indistinctis cinereis undulatis fusco marginatis, fascia exteriore e guttis albidis, linea marginali testacea, reniformi cinereo-fusco notata et marginata; posticæ cinereæ, ciliis testaceis.

Female. Rosy-red. Abdomen cinereous, fawn-colour towards the tip. Fore wings with very indistinct cinereous undulating

brown-bordered bands; exterior band consisting of whitish dots; marginal line testaceous; claviform and orbicular spots nearly obsolete; reniform cinereous, marked and bordered with brown. Hind wings cinereous, with testaceous cilia. Length of the body 6 lines; of the wings 14 lines.

a. New Zealand. Presented by the Rev. W. Colenso.

Genus 8. ORTHOSIA.

Corpus robustum, pilosum. Proboscis mediocriter longa. Palpi validi, pilosi, porrecti, caput vix superantes; articulus 3us minimus. Antennæ corporis dimidio valde longiores. Abdomen alas posticas plus minusve superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori mediocriter obliquo. *Mas.*—Antennæ plus minusve ciliato-serratæ.

Orthosia p., *Och. Syst. Gloss. Schmett. von Eur.* iv.; *Treit.*; *Dup.*; *Boisd.*; *Steph.*; *Herr.-Schæff.*; *Guén. Ann. Soc. Ent. Fr.* viii. 480; *Noct.* i. 358.

Polia, p., *Herr.-Schæff.*

Caradrina, p., *Orrhodia*, p., *Parastichtis*, p., et *Orthosia*, p., *Hübner. Verz. Schmett.*

Body stout, pilose. Proboscis moderately long. Palpi stout, pilose, porrect, hardly extending beyond the head; third joint very minute, much less than one-fourth of the length of the second. Antennæ much more than half the length of the body. Abdomen extending a little or as much as one-third of its length beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, angular at the tips, moderately oblique along the exterior border. *Male.*—Antennæ more or less ciliate-serrate.

Europe.

A. Alæ anticæ nigro non variæ.

A. Alæ anticæ murinæ aut cinerascens.

a. Alæ anticæ macula discali nigra.

a. Alæ anticæ linea exteriori ferruginea.

Lota, Linn.

b. Alæ anticæ linea nulla ferruginea.

i. Alæ anticæ breviores.

ruticilla, Esp.

ii. Alæ anticæ longiores.

lævis, Hübn.

- B. Alæ anticæ macula nulla nigra.
 a. Prothorax pallidus. - - - - - suspecta, *Hübner*.
 b. Prothorax niger. - - - - - murina, *Eversmann*.
 B. Alæ anticæ testaceæ. - - - - - Kindermannii, *Fischer*.
 C. Alæ anticæ cervinæ. - - - - - macilenta, *Hübner*.
 B. Alæ anticæ nigro variæ. - - - - - Ypsilon, *Wien. Verz.*

1. ORTHOSIA RUTICILLA.

Rubescens-cinerea, palpi rubescentes; alæ anticæ annulis duobus indistinctis discalibus albidis, linea transversa subobsoleta submarginali canescente, guttis marginalibus fusciscentibus canescente cinctis; posticæ cinereæ, ciliis subrubrescentibus.

Noctua rutila, *Esp. Schmett.* pl. 157, f. 1.

Noctua Serpylli, *Hübner. Eur. Schmett. Noct.* f. 488. *Dup. Hist. Nat. Lép. Fr.* iii. 67, pl. 76.

Orthosia rutila, *Treit. Schmett. Eur.* vi. 409. *Boisd. Ind. Méth.* 142, 1152. *Guen. Ann. Soc. Ent. Fr.* vi. 242; *Noct.* i. 359, 599. *Herr.-Schæff. Eur. Schmett.* ii. 204, 75; ii. *Noct.* pl. 1407, 79.

Orrhodia Serpylli, *Hübner. Verz. Schmett.* 231, 2320.

Orthosia Ilicis, *Boisd. Ind. Addend.* 5. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 303, pl. 28.

England.

a, b. Europe. From M. Becker's collection.

2. ORTHOSIA LÆVIS.

Cinerea; alæ anticæ cervino tinctæ, lineis transversis undulatis guttularibus et integris pallidioribus et nigricantibus, maculis orbiculari et reniformi marginibus pallidioribus fuscisque, hac nigro notata, illa rotunda; posticæ obscuriores, ciliis pallidis.


Orthosia lævis, *Treit. Schmett. Eur.* v. 232. *Boisd. Ind. Méth.* 140, 1130. *Guen. Ann. Soc. Ent. Fr.* vi. 242; *Noct.* i. 359, 600. *Herr.-Schæff. Eur. Schmett.* ii. 202, 68.

Caradrina lævis, *Hübner. Verz. Schmett.* 230, 2309.

a. Europe. From M. Becker's collection.

b. Europe. From Mr. Milne's collection.

3. ORTHOSIA SUSPECTA.

 Var. *Cinerea*; abdomen canum; alæ anticæ cervino suffusæ, annulis duobus discalibus albidis, linea undulata interiore lineisque duabus e punctis exterioribus nigricantibus; posticæ canæ, macula discali margineque cinereis.

Noctua suspecta, *Hübner. Eur. Schmett. Noct.* f. 633.

Parastichtis suspecta, *Hübner. Verz. Schmett.* 213, 2123.

Orthosia lævis, *Dup. Hist. Nat. Léop. Fr.* iii. 65, pl. 76.

Orthosia suspecta, *Guen. Noct.* i. 360, 601.

Noctua congener, *Geyer, Samml. Eur. Schmett.* f. 862.

Noctua iners, *Germ. Faun. Ins. Eur. Fasc.* 16, pl. 24. *Dup. Hist. Nat. Léop. Fr. Suppl.* 292, pl. 27, f. 2, a.

Orthosia suspecta, var. A. congener, *Guen. Noct.* i. 360.

France. Hungary.

a—f. England. From Mr. Stephens' collection.

g—j. England. From Mr. Carter's collection.

k—n. Europe. From M. Becker's collection.

4. ORTHOSIA KINDERMANNII.

Testacea; alæ anticæ fasciis plurimis undulosis atomisque cervinis, guttis exterioribus fuscis, maculis cervino marginatis, reniformi nigro signata; posticæ cinereæ, ciliis testaceis.

Noctua Kindermannii, *Fisch.-v-Rosl. Abbild.* 77, pl. 36. *Frey. Neu. Beit. Schmett.* iv. pl. 327.

Orthosia Kindermannii, *Herr.-Schæff. Schmett. Eur.* ii. 197, 48. *Guen. Noct.* i. 361, 603.

Orthosia Ballotæ, *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 600, pl. 50. *Guen. Ann. Soc. Ent. Fr.* vi. 242.

Dalmatia.

a—d. Europe. From M. Becker's collection.

5. ORTHOSIA YPSILON.

Cervino-cinerea; abdomen et alæ posticæ pallidiora; alæ anticæ macula U formi discali, striga postica gutta interiore lunulisque marginalibus nigricantibus.

———, *Engr. Pap. d'Eur.* 476, d.

Noctua Ypsilon, *Wien. Verz.* 78, 13. *Sepp, Ins.* iii. pl. 37. *Bork. Eur. Schmett.* iv. 503, 200. *Hübner. Eur. Schmett. Noct.* pl. 29, f. 136. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 81, f. 5. *Frey. Beit.* iv. pl. 329.

Noctua corticea, *Esp. Schmett.* iv. pl. 145, f. 2, 3.

Noctua fissipuncta, *Haw. Lep. Brit.* 105.

Noctua Nun-atrum et *N. Ypsilon*, *Scriba, Beit. Ins. Ges.* pl. 9, f. 6.

Exarnis Ypsilon, *Hübner. Verz. Schmett.* 225, 2258.

Polia Ypsilon, *Herr.-Schæff. Eur. Schmett.* ii. 262, 242.

Orthosia Ypsilon, *Treit. Schmett.* v. 210, 4. *Steph. Ill. Brit. Ent. Haust.* ii. 149. *Boisd. Ind. Méth.* 141, 1142. *Guen. Noct.* i. 361, 604.

Noctua (Orthosia) Ypsilon, *Meig. Syst. Besch.* iii. 113, 56, pl. 98, f. 9.

a, b. England. Presented by W. Wing, Esq.

c. England. Presented by E. Doubleday, Esq.

d—l. England. From Mr. Stephens' collection.

m, n. England.

o—q. Europe. From M. Becker's collection.

6. ORTHOSIA LOTA.

Murina; antennæ fulvescentes; alæ anticæ punctis nonnullis guttaque discali nigris, annulis duobus lineaque transversa exteriore ferrugineis cano marginatis; posticæ gutta discali nigricante.

———, *Deg. Ins.* ii. 419, pl. 7. *Engr. Pap. d'Eur.* 400, a—c.

Phalæna-Noctua Lota, *Linn. Syst. Nat.* ii. 1137. *Clerck, Icon.* pl. 8, f. 1.

Noctua Lota, *Wien. Verz.* 76, 6. *Esp. Schmett.* iv. pl. 67, f. 1. *Sepp. Ins.* iii. pl. 38. *Bork. Eur. Schmett.* iv. 250. *Haw. Lep. Brit.* 239. *Frey. Beit.* pl. 131.

Bombyx Lota, *Fab. Ent. Syst.* iii. 1, 145. *Haw. Lep. Brit.* 78.

Orthosia Lota, *Hübner. Verz. Schmett.* 229, 2292. *Treit. Schmett.* ii. 212. *Steph. Ill. Brit. Ent. Haust.* ii. 147. *Boisd. Ind. Méth.* 141, 1142. *Guen. Noct.* i. 362, 605. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 298, pl. 27. *Westw. & H. Brit. Moths.* i. 137, pl. 28, f. 9. *Herr.-Schæff. Schmett. Eur.* ii. 205, 77.

Noctua Hippophaes, *Rossi, Mant.* ii. 411.

Noctua munda, *Hübner. Eur. Schmett. Noct.* pl. 35, f. 167.

a, b. England. Presented by J. C. Dale, Esq.

c. England. Presented by E. Doubleday, Esq.

d—k. England. From Mr. Stephens' collection.

l—n. England.

o—q. Europe. From M. Becker's collection.

7. ORTHOSIA MACILENTA.

Lateritia; *alæ anticæ atomis guttaque discali nigris*. Mas.—*Abdomen cinerascens, apice lateritium*; *alæ anticæ annulo oblongo lineaque transversa exteriore testaceis cervino marginatis*; *posticæ murinæ, gutta discali obscuriore, ciliis lateritiis*. Fœm.—*Alæ anticæ testaceo rariæ, posticæ subtestaceæ, apud discum diffuse submurinæ*.

Noctua macilenta, Hübn. *Eur. Schmett. Noct.* pl. 89, f. 418. *Haw. Lep. Brit.* 230. *Dup. Hist. Nat. Lép. Fr.* iv. 64, pl. 104, f. 5. *Frey. Neu. Beit. Schmett.* iii. pl. 251.

Orthosia macilenta, Hübn. *Verz. Schmett.* 229, 2294. *Treit. Schmett. Eur.* ii. 215. *Boisd. Ind. Méth.* 141, 1139. *Guen. Ann. Soc. Ent. Fr.* vi. 242; *Noct.* i. 362, 606. *Steph. Ill. Brit. Ent. Haust.* iii. 68. *Westw. & H. Brit. Moths*, i. 140, pl. 28, f. 9. *Herr.-Schæff. Schmett. Eur.* ii. 205, 78.

Noctua flavilinea, *Haw. Lep. Brit.* 243.

Orthosia flavilinea, *Steph. Ill. Brit. Ent. Haust.* ii. 148, pl. 19, f. 2.

a—k. England. From Mr. Stephens' collection.

l. Scotland. From Mr. Foxcroft's collection.

m, n. England.

o—r. Europe. From M. Becker's collection.

8. ORTHOSIA? MURINA.

Fusco-cinerea; *prothorax niger*; *alæ anticæ ciliis concoloribus, macula media obsoleta fusco signata, linea transversa basali et altera externa flexuosa dentatis nigris*; *posticæ pallide nigricantes, puncto medio nigriore*.

Orthosia murina, *Eversm. Bull. Soc. Imp. Nat. Mosc.*

Balkan Mountains.

Asia.

9. ORTHOSIA CIRCUMDUCTA.

Fuscescens; *alæ anticæ apud marginem exteriorem pallidiores, lineis transversis interiore et exteriore albidis, plaga maxima intermedia pallida orbicularem et reniformem includente*; *posticæ pallidiores, macula discali lineaque exteriore obscurioribus*. Mas.—*Antennæ subpectinatæ*.

Orthosia circumducta, *Ledern, Verhandl. Zool. Botan. Verein in Wien.* viii. pl. 1, f. 9.

Altai, Siberia.

Australia.

10. ORTHOSIA PULVIS.

Mas. *O. suspectæ similis, nigro-cinerea; antennæ submoniliformes, sat pubescentes, ciliis longioribus; alæ anticæ nigro-cinereæ, conspersæ, lituris oblitteratis, maculis medianis minus conspersis cinereo marginatis; posticæ nigro-cinereæ, basi pallidiores, ciliis pallidis nigro interlineatis, subtus puncto discali lineaque vix distinctis.*

Orthosia pulvis, Guen. Noct. i. 361, 602.

Australia.

Genus 9. ANCHOCELIS.

Corpus robustum. Proboscis mediocriter longa. Palpi porrecti, validi, pilosi, caput non superantes; articulus 3us minutus. Antennæ corporis dimidio valde longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor mediocriter longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori mediocriter obliquo. *Mas.*—Antennæ subciliatæ.

Orbona, p., Agrochola, Cuphana, Conistra, et Amathes, *Hübner. Verz. Schmiett. 232.*

Anchocelis, *Guen. Ann. Soc. Ent. Fr. viii.; Noct. i. 363. Dup. Cat.*

Orthosia, p., *Treits.; Boisd.; Steph.; Meig.; Herr.-Schæff.*

Xanthia, p., *Treits.; Boisd.; Steph.*

Orbona, Westw.

Body stout. Proboscis moderately long. Palpi porrect, stout, pilose, not extending beyond the head; third joint minute, less than one-fourth of the length of the second. Antennæ much more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with four moderately long spurs. Wings moderately broad. Fore wings straight in front, angular at the tips, moderately oblique along the exterior border. *Male.*—Antennæ minutely ciliated.

Europe.

A. Alæ posticæ non maculatæ.

A. Alæ anticæ linea nulla discali albida.

a. Alæ anticæ strigis nullis costalibus nigris.

a. Palpi apice flavi. - - - rufina, *Wien. Verz.*

b. Palpi non apice flavi.

- i. Alæ anticæ venis cervinis. - humilis, *Wien. Verz.*
- ii. Alæ anticæ venis non cervinis. - hæmatidea, *Dup.*
- B. Alæ anticæ strigis costalibus nigris.
 - a. Alæ anticæ macula costali subapicali nigra. litura, *Linn.*
 - b. Alæ anticæ macula nulla subapicali nigra.
 - i. Macula orbicularis nigro notata. pistacina, *Wien. Verz.*
 - ii. Macula orbicularis nigro non notata. nitida, *Wien. Verz.*
- B. Alæ anticæ linea discali albida. - - - neurodes, *Hübner.*
- B. Alæ posticæ maculatæ. - - - lunosa, *Haw.*

1. ANCHOCELIS HÆMATIDEA.

Rufescens; alæ anticæ cupreo-rufescentes; linea submarginali e guttis nigris, maculis orbiculari et reniformi parvis contiguis pallido marginatis; posticæ cinereæ, ciliis rufescentibus.
Mas.—Antennæ ciliatæ.

Noctua hæmatidea, Dup. Hist. Nat. Léop. Fr. iv. 365, pl. 122. Frey. Neu. Beit. Schmett. i. pl. 95, f. 4.

Orthosia hæmatidea, Treit. Schmett. Eur. Suppl. x. 76. Boisd. Ind. Méth. 141, 1136. Herr.-Schæff. Schmett. Eur. ii. 202, pl. 10, f. 49.

Anchocelis hæmatidea, Guen. Ann. Soc. Ent. Fr. vi. 242; Noct. i. 363, 607.

Central France. Italy.

2. ANCHOCELIS RUFINA.

Rufo-cervina; abdomen cinerascens, lateribus cervinis; palpi apice flavi; pedes rufi, subtus flavi; alæ anticæ basi fasciæque rufis, fascia exteriore cinerascens marginibus undulatis testaceis, orbiculari et reniformi testaceis; posticæ cinereæ, marginibus pallide cervinis.

———, *Engr. Pap. d' Eur. 410, a—c.*

Phalæna-Bombyx rufina, Gmel. ed. Syst. Nat. i. 5, 2436, 72.

Phalæna helvola, Linn. Faun. Suec. 1142. Clerck. Icon. pl. 4, f. 8.

Noctua rufina, Wien. Verz. 86, 9. Fabr. Mant. Ins. ii. 2, 142, 60;

Ent. Syst. iii. 2, 32, 77. Bork. Eur. Schmett. iv. 351, 341.

Hübner. Eur. Schmett. Noct. pl. 38, f. 184. Dup. Hist. Nat.

Léop. Fr. vii. pl. 103, f. 3.

Noctua catenata, Esp. Schmett. iv. pl. 123, f. 1.

Noctua punica, Bork. Eur. Schmett. iv. 687, 300.

Noctua (Orthosia) rufina, Meig. Syst. Besch. iii. 117, 63, pl. 99, f. 5.

Orthosia rufina, Treit. Schmett. v. 347, 4.

Bombyx helvola, Haw. Lep. Brit. 202.

Orbona rufina, *Hübner. Verz. Schmett.* 232, 2332. *Westw. & H. Brit. Moths*, i. 211, pl. 45, f. 11, 12.

Xanthia? *rufina*, *Steph. Ill. Brit. Ent. Haust.* ii. 111, 65.

Anchocelis rufina, *Guen. Noct.* i. 364, 608.

a—*n.* England. From Mr. Stephens' collection.

o—*s.* England.

t—*w.* Europe. From M. Becker's collection.

x. Europe.

3. ANCHOCELIS PISTACINA.

Rufescens, subtus cinerascens; abdomen cinereum; alæ anticæ lineis transversis indistinctis nigris ex parte guttularibus, costa ex parte albida nigro notata, orbiculari et reniformi cinereis nigro notatis, hac vix excavata, illa obliqua; posticæ cinereæ, ciliis pallidis.

Noctua pistacina, *Wien. Verz.* 77, 1. *Fabr. Mant. Ins.* ii. 175, 263; *Ent. Syst.* iii. 2, 109, 328. *Bork. Eur. Schmett.* iv. 523, 210. *Hübner. Eur. Schmett. Noct.* pl. 28, f. 131. *Haw. Lep. Brit.* 206.

Orthosia pistacina, *Treit. Schmett. Eur.* v. 139, 17. *Steph. Ill. Brit. Ent. Haust.* ii. 146. *Boisd. Ind. Méth.* 141, 1135. *Dup. Hist. Nat. Léop. Fr. Suppl.* vii. pl. 1, f. 3. *Herr.-Schæff. Schmett. Eur.* ii. 200, 55. *Westw. & H. Brit. Moths*, i. 138, pl. 28, f. 5—8.

Anchocelis pistacina, *Guen. Ann. Soc. Ent. Fr.* 242; *Noct.* i. 364, 609.

Phalæna-Noctua pistacina, *Gmel. ed. Syst. Nat.* i. 5, 2578, 1190.

Noctua Lychnidis, *Fabr. Mant. Ins.* ii. 146, 90; *Ent. Syst.* iii. 2, 45, 122. *Wien. Verz.* 76, 5. *Bork. Eur. Schmett.* iv. 598, 248. *Hübner. Eur. Schmett. Noct.* pl. 98, f. 464. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 80, f. 5.

Phalæna-Noctua Lychnidis, *Gmel. ed. Syst. Nat.* i. 5, 2547, 1060.

Noctua serina, *Esp. Echmett.* iv. pl. 156, f. 12.

Noctua rubetra, *Esp. Schmett.* iv. pl. 156, f. 3, 4.

Noctua canaria, *Esp. Schmett.* iv. pl. 156, f. 5, 6.

Noctua Schænobæna? *Esp. Schmett.* iv. pl. 157, f. 2, 3.

Noctua (Orthosia) pistacina, *Meig. Syst. Besch.* iii. 116, 61, pl. 97, f. 4.

Noctua lineola, *Donov. Brit. Ins.* pl. 360.

Noctua venosa, *Haw. Lep. Brit.* 209.

Noctua sphærolatina, *Haw. Lep. Brit.* 205.

Agrochola pistacina, *Hüb. Verz. Schmett.* 229, 2301.

Agrochola Lychnidis, *Hüb. Verz. Schmett.* 229, 2302.

a—uu. England. From Mr. Stephens' collection.

ww—bbb. England.

ccc, ddd. Europe. From M. Becker's collection.

eee. Europe. From Mr. Milne's collection.

4. ANCHOCELIS NITIDA.

Ferrugineo-cervina; abdomen cinereum, apice subtusque cervinum;
alæ anticæ annulis duabus discalibus testaceis, lineis transversis tribus fuscis totidemque nigris guttisque exterioribus nigris; posticæ cinereæ, cervino ciliatæ.

———, *Engr. Pap. d'Eur.* 398, a—c.

Noctua nitida, *Wien. Verz.* 86, 4. *Fabr. Ent. Syst.* iii. 2, 31, 75.

Bork. Eur. Schmett. iv. 337. *Hüb. Eur. Schmett. Noct. f.*

180. *Dup. Hist. Nat. Léop. Fr.* iv. 277, pl. 117. *Frey. Beit.*

Gesch. Schmett. iii. pl. 118.

Noctua lucida, *Naturf. Ins.* ix. 122. *Berl. Mag.* iii. 54.

Orthosia nitida, *Treit. Schmett. Eur.* ii. 234; *Suppl.* x. 78. *Boisd.*

Ind. Méth. 140, 1133. *Herr.-Schæff. Schmett. Eur.* ii. 200, 56.

Anchocelis nitida, *Guen. Noct.* i. 366, 610.

Cuphanoa nitida, *Hüb. Verz. Schmett.* 230, 2306.

a—d. Europe. From M. Becker's collection.

5. ANCHOCELIS HUMILIS.

Ferrea; abdomen fuscescens, apice ferreum; alæ anticæ fasciis tribus subobsoletis obscurioribus, maculis basalibus indistinctis nigricantibus, annulis duobus transversis discalibus venisque cervinis, lineis duabus transversis exterioribus e guttis fuscis cervino marginatis, posticæ nigro-cinereæ, ciliis cervinis.

Noctua humilis, *Wien. Verz.* 76, 3. *Fabr. Ent. Syst.* iii. 2, 45,

120. *Bork. Eur. Schmett.* iv. 246? *Hüb. Eur. Schmett.*

Noct. f. 170. *Dup. Hist. Nat. Léop. Fr.* iv. 274, pl. 117

Orthosia humilis, *Treit. Schmett.* ii. 23. *Boisd. Ind. Méth.* 141,

1134. *Herr.-Schæff. Schmett. Eur.* ii. 200, 57.

Anchocelis humilis, *Guen. Noct.* i. 366, 611.

Cuphanoa humilis, *Hüb. Verz. Schmett.* 230, 2305.

a—c. Europe. From M. Becker's collection.

6. ANCHOCELIS LUNOSA.

Rufescens aut fuscescens aut pallide cervina; alæ anticæ venis pallidioribus, fasciis nonnunquam obsoletis fuscescentibus, macula costali subapicali, orbiculari et reniformi nigricantibus, linea transversa submarginali e guttis nigris; posticæ albidæ, macula discali fasciaque exteriore fuscis, nonnunquam cinereo nebulosæ.

Noctua lunosa, *Haw. Lep. Brit.* 203.

Orthosia lunosa, *Curt. Brit. Ent.* pl. 237. *Steph. Ill. Brit. Ent. Haust.* ii. 147.

Anchocelis lunosa, *Guen. Noct.* i. 367, 612.

Anchocelis agrotoides, *Guen. Ann. Soc. Ent. Fr.* 485, 242.

Orthosia subjecta, *Dup. Hist. Nat. Lép. Fr.* iii. 295, pl. 27, f. 3.
Herr.-Schæff. Schmett. Eur. ii. 199, pl. 57, f. 289. (Neurodes).

Orthosia humilis, *var.*, *Boisd. Ind. Méth.* 141, 1134.

Var. Orthosia neurodes, *Herr.-Schæff. Schmett. Eur.* ii. pl. f. 94.

a. England. Presented by J. C. Dale, Esq.

b. England. Presented by E. Doubleday, Esq.

c—p. England. From Mr. Stephens's collection.

q, r. England. From Mr. Carter's collection.

s. England.

t, u. Europe. From M. Becker's collection.

7. ANCHOCELIS NEURODES.

Rufo-fusca; abdomen pallidum; alæ anticæ strigis costalibus nigris, lineis transversis testaceis, linea discali furcata albida; posticæ cinereæ, basi pallidiores, linea marginali nigra.

Noctua neurodes, *Hübner. Eur. Schmett. Noct.* f. 568.

Conistra neurodes, *Hübner. Verz Schmett.* 229, 2300.

Orthosia neurodes, *Boisd. Ind. Méth.* 141, 1137.

Anchocelis neurodes, *Guen. Ann. Soc. Ent. Fr.* vi. 242; *Noct.* i. 368, 613.

Dalmatia.

8. ANCHOCELIS LITURA.

Ferrugineo-cinerea; abdomen cinereum; alæ anticæ annulis duobus lineisque transversis undulatis interioribus pallidioribus fusco marginatis, maculis quinque costalibus nigris; posticæ cinereæ, basi ciliisque pallidioribus.

- , *Engr. Pap. d' Eur.* 399, a, b.
- Phalæna-Noctua litura, *Linn. Faun. Suec.* 1213; *Syst. Nat.* 2, 858, 192. *Gmel. ed. Syst. Nat.* i. 5, 2578, 192.
- Noctua litura, *Wien. Verz.* 77, 2. *Fabr. Sp. Ins.* ii. 236, 131; *Mant. Ins.* ii. 175, 262; *Ent. Syst.* iii. 2, 326. *Esp. Schmett.* iv. pl. 177, f. 5. *Bork. Schmett. Eur.* iv. 525, 211. *Hübner. Eur. Schmett. Noct.* pl. 27, f. 127. *Haw. Lep. Brit.* 210. *Dup. Hist. Nat. Léop. Fr.* iv. pl. 79, f. 6.
- Orthosia litura, *Treit. Schmett.* v. 242, 18. *Boisd. Ind. Méth.* 140, 1124. *Steph. Ill. Brit. Ent. Haust.* ii. 145. *Westw. & H. Brit. Moths*, i. 138, pl. 28, f. 4. *Herr.-Schæff. Schmett. Eur.* ii. 199, 53.
- Noctua polluta, *Esp. Schmett.* iv. pl. 137, f. 5.
- Amathes litura, *Hübner. Verz. Schmett.* 222, 2219.
- Noctua (Orthosia) litura, *Meig. Syst. Besch.* iii. 117, 62, pl. 98, f. 3.
- Anchocelis litura, *Guen. Noct.* i. 368, 614.
- Noctua ornatrix, *Hübner. Eur. Schmett. Noct.* f. 813. *Frey. Beit.* i. pl. 95, f. 1.
- a—n. England. From Mr. Stephens' collection.
- o—q. England.
- r—u. Europe. From M. Becker's collection.

Genus 10. HYPOTRIX.

Corpus sat gracile. Proboscis mediocriter longa. Palpi breves, subascendentes; articulus 3us brevis, distinctus, crassus, obtusus. Antennæ vix ciliatæ, corporis dimidio paullo longiores. Thorax sat oblongus. Abdomen alas posticas fere dimidio superans. Pedes longiusculi, subpilosi; tibiæ posticæ calcaribus breviusculis. Alæ anticæ oblongæ, apud costam rectæ, apice acuminatæ, margine exteriori subobliquo; posticæ latæ. *Mas.*—Abdomen lateribus pilosissimis, subtus fasciculatum. *Fæm.*—Abdomen brevius.

Hypotrix, *Guen. Noct.* i. 369.

Body rather slender. Proboscis of moderate length. Palpi slightly ascending, short; second joint with hairs closely applied; third joint short, but distinct, thick, obtuse. Antennæ hardly ciliated, a little more than half the length of the body. Thorax somewhat oblong. Abdomen extending for nearly half its length beyond the hind wings. Legs rather long, slightly pilose; hind tibiæ with short spurs. Fore wings oblong, straight in front, acu-

minated at the tips, slightly oblique along the exterior border; submarginal line well defined. Hind wings broad. *Male*.—Abdomen very pilose on each side, with tufts of hairs beneath. *Female*.—Abdomen shorter.

1. HYPOTRIX PURPURIGERA.

Rubro-cinerascens; palpi recti; abdomen lateribus ventrequé purpureo fasciculatis; alæ anticæ gutta basali nigra, orbiculari et reniformi bene determinatis, oblongis, subæqualibus, obliquis, postice approximatis, rufo-fuscis flavo marginatis, umbra mediana reniformem trajiciente, linea submarginali conspicua subundulata fusco-rufo marginata; posticæ nigro-cinereæ, ciliis pallidioribus, lunula discali subtus conspicua.

Hypotrix purpurigera, Guén. Noct. i. 369, 615.

Brazil.

2. HYPOTRIX FLAVIGERA.

Mas. *Pallide ochracea*; abdomen nigricans pilis ochraceis, subtus nigro fasciculatum; alæ anticæ spatio marginali albo-cinereo, linea submarginali flava subrecta nigro marginata antice interrupta, lineis guttularibus subobsoletis, macula orbiculari nulla, reniformi flava nigro bipunctata; posticæ nigro-cinereæ, ciliis pallidis, subtus pallidæ, lunula lineaque nigricantibus.

Hypotrix flavigera, Guen. Noct. i. 370, 616.

Brazil.

3. HYPOTRIX CARNEIGERA.

Mas. *Roseo-cinerea, sericea*; abdomen nigricans; alæ anticæ nitentes, valde acutæ, costa margineque interiore luteo lineatis, fasciis tribus vagis perobliquis olivaceo-viridibus, lineis transversis carneis subrectis subparallelis, maculis orbiculari et reniformi maximis olivaceis luteo marginatis, hac obliqua subinformi, margine exteriori ciliisque olivaceis, his roseo terminatis; posticæ albæ, subhyalinæ, margine venisque subcinerascentibus.

Hypotrix carneigera, Guen. Noct. i. 370, 617.

Brazil.

Genus 11. ORTHODES.

Corpus sat robustum. Proboscis mediocriter longa. Palpi sæpissime validi, pilosi, ascendentes; articulus 3us in speciebus 1—4 brevis. Antennæ corporis dimidio longiores. Abdomen alas posticas triente superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ breviusculæ; anticæ apud costam subrectæ, apice subangulatæ, margine exteriori vix obliquo. *Mas.*—Antennæ sæpissime simplices. Sexualia magna.

Orthodes, *Guen. Noct. i. 371.*

Body moderately stout. Proboscis moderately long. Palpi generally stout, pilose, ascending; third joint short in the typical species. Antennæ more than half the length of the body, generally simple in the male. Abdomen extending for about one-third of its length beyond the hind wings; apical appendages of the male large. Legs stout; hind tibiæ with long spurs. Wings rather short. Fore wings almost straight in front, somewhat angular at the tips, hardly oblique along the exterior border.

The North American species may be considered as the types of this genus; some of those from South America belong to distinct genera, and perhaps to the second group of *Noctuities*.

North America.

The four following may be all varieties of one species.

1. ORTHODES CYNICA.

Fusca aut rufo-fusca; abdomen cinereum; alæ anticæ fuscis transversis undulatis indistinctis obscurioribus et pallidioribus, guttis exterioribus nigris, maculis orbiculari et reniformi subobsoletis; posticæ nigro-cinereæ, ciliis pallidis.

Orthodes cynica, *Guen. Noct. i. 375, 627.*

a. New York. Presented by E. Doubleday, Esq.

b—e. Nova Scotia. From Lieut. Redman's collection.

2. ORTHODES NIMIA.

Fusca; abdomen subcervinum; alæ anticæ lineis transversis angulosis obscurioribus et pallidioribus, maculis orbiculari et reniformi subæqualibus albido marginatis; posticæ cinereæ.

Orthodes nimia, *Guen. Noct. i.* 376, 628.

a—c. New York. Presented by E. Doubleday, Esq.

3. ORTHODES CANDENS.

Rufo-fusca; *abdomen subcervinum*; *alæ anticæ lineis transversis subobsoletis, guttis exterioribus nigris, maculis orbiculari et reniformi pallido marginatis, hac obliqua elliptica*; *posticæ cinereæ*.

Orthodes candens, *Guen. Noct. i.* 376, 629.

a. New York. Presented by E. Doubleday, Esq.

4. ORTHODES VECORS.

Fusco-cervina; *alæ anticæ lineis transversis distinctis pallidis ex parte fusco marginatis, guttis marginalibus nigricantibus, maculis orbiculari et reniformi fuscescentibus distinctis pallido marginatis*; *posticæ cervino-cinereæ*.

Orthodes vecors, *Guen. Noct. i.* 376, 630.

a, b. New York. Presented by E. Doubleday, Esq.

South America.

5. ORTHODES T-NIGRUM.

Fœm. Ochraceo-cinerea; *palpi articulo 2o fusco apice pallido*; *abdomen pilis nonnullis nigris, subtus punctis nigris bilineatum*; *alæ anticæ nigro conspersæ, striga discali apud venam medianam maculaque reniformi angusta nigris conjunctis, orbiculari punctiformi nigra, linea submarginali e lituris duabus nigricantibus, guttis marginalibus nigris*; *posticæ subobscuratæ, lunula discali punctisque marginalibus saturatioribus*.

Orthodes T-nigrum, *Guen. Noct. i.* 372, 618.

Brazil.

6. ORTHODES? PICTA.

Ferruginea; *alæ anticæ lineis transversis nigris, gutta discali alba, costa recta, apice angulatæ, margine exteriore denticulato, ciliis albidis nigro notatis*; *posticæ cinereæ, basi ciliisque albidis*.

Phalæna-Noctua picta, Anon. *Ins. Surinam*, i. 99, pl. 46.

This species may form a new genus.

Surinam.

7. ORTHODES SATELLITIOIDES.

Palpi ascendentes, crassi, unicolores ; pedes validi, tibiis villosis ; alæ anticæ nigro-fuscæ violaceo velutinæ, linea subterminali e punctis flavis, macula reniformi e guttis duabus luteis, margine exteriori denticulato ; posticæ nigro-cinereæ.

Orthodes satellitioides, Guen. *Noct.* i. 352, 619.

Orthodes picta, var. ?

Brazil.

8. ORTHODES ANOATRA.

Argillaceo-rufa ; pectus villosum ; abdomen supra nigrum, subtus basi nigro fasciculatum ; pedes villosi ; alæ anticæ violaceo subinctæ, costa obscuriore, lituris bene determinatis, maculis pallido marginatis ; posticæ albæ, margine nigricante, venis nigris.

Orthodes anoatra, Guen. *Noct.* i. 372, 620.

Parà.

9. ORTHODES MELANOGASTER.

Abdomen supra nigricans, pilis lateralibus carneis ; pedes ex parte carneo-rufescentes ; alæ anticæ cinereo-carneæ, conspersæ, nitentes, apice quadratæ, spatio pallidiori apud lineam arcuatam punctis albis nigrisque diviso, lineis bene determinatis maculis magnis pallido marginatis, ciliis flavo-viridibus, posticæ nigro-cinereæ, ciliis carneis.

Orthodes melanogaster, Guen. *Noct.* i. 373, 621.

Brazil.

10. ORTHODES ALBIMARGO.

Carneo-fusca, cinerascens ; palpi valde robusti, caput superantes, oblique ascendentes ; abdomen cinereo-carneum ; pedes validi ; alæ anticæ apice subrotundatæ, lineis distinctis, maculis magnis bene determinatis pallido marginatis ; posticæ nigricantes, ciliis carneis.

Orthodes albimargo, Guen. *Noct.* i. 373, 622.

Brazil.

11. ORTHODES FRIBURGENSIS.

Carneo-rufescens ; palpi articulo 3o recto gracili, nudo, longiusculo ; abdomen flavescens ; alæ anticæ apud medium antice et postice saturatiores, lineis distinctis, maculis concoloribus magnis cinereo marginatis ; posticæ carneo-cinereæ, margine ciliisque carneis.

Orthodes friburgensis, Guen. Noct. i. 374, 623.

Brazil.

12. ORTHODES RUBER.

Pallide rufescens, subcarnea ; palpi graciles, unicolores ; alæ anticæ apud costam rectæ, apice subquadrata, lineis duabus medianis vix distinctis, subterminali bene determinata, maculis parallelis subæqualibus nigro marginatis ; posticæ sordide cinereæ, ciliis rufescentibus.

Orthodes ruber, Guen. Noct. i. 374, 624.

Brazil.

13. ORTHODES CURVIRENA.

Cinereo-fusca, subviolacea ; palpi lateribus nigricantibus, articulo 3o longo ; abdomen longum, subtus rufescens, pilis apicalibus fulvis ; alæ anticæ lineis bene determinatis, maculis subcontinguis ; posticæ nigricantes.

Orthodes curvirena, Guen. Noct. i. 374, 625.

Brazil.

14. ORTHODES INFIRMA.

Nigro-testacea ; cinerascens ; palpi valde arcuati, sat graciles, extus nigricantes ; alæ anticæ lineis pallidioribus subroseis, subterminali ochracea, punctis apud lineam arcuatam albis nigrisque, maculis sat magnis roseo marginatis ; posticæ albo-flavescentes margine subnigricante.

Orthodes infirma, Guen. Noct. i. 375, 626.

Brazil

Genus 12. CERASTIS.

Corpus robustum. Proboscis mediocriter longa. Palpi porrecti, validi, breves, pilosi, caput non superantes; articulus 3us minimus. Antennæ corporis dimidio multo longiores. Abdomen latum, depressum, alas posticas plus minusve superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ breviusculæ, medio-criter latæ; anticæ apud costam rectæ, apice rectangulatæ, margine exteriori subconvexo vix obliquo. *Mas.*—Antennæ vix ciliatæ.

Cerastis, *Guen. Ann. Soc. Ent. Fr.* viii. 494; *Noct.* i. 377.

Cerastis, *p., Ochs.; Treits.; Boisd.; Dup.; Herr.-Schæff.*

Glæa, Steph.; Westw.

Orrhodia, Hübn. Verz. Schmett. 231; *Steph. Cat. Brit. Lep.*

Body stout. Proboscis moderately long. Palpi porrect, stout, short, pilose, not extending beyond the head; third joint very minute, much less than one-fourth of the length of the second. Antennæ much more than half the length of the body. Abdomen broad, flat, extending one-third or less beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings rather short, moderately broad. Fore wings straight in front, rectangular at the tips, slightly convex and hardly oblique along the exterior border. *Male.*—Antennæ hardly ciliated.

Europe.

A. Alæ anticæ testaceæ. - - - - - Buxi, *Boisd.*

B. Alæ anticæ rufescentes aut ferrugineæ.

A. Alæ anticæ nigro non signatæ.

a. Alæ posticæ flavo non late marginatæ.

a. Maculæ discales non pallidæ.

i. Alæ anticæ rufescentes. - - - Vaccinii, *Linn.*

ii. Alæ anticæ cinereo-ferrugineæ. spadicea, *Wien. Verz.*

b. Maculæ discales pallidæ. - - - Veronicæ, *Hübn.*

B. Alæ posticæ flavo late marginatæ. - - - serotina, *Treit.*

B. Alæ anticæ nigro signatæ.

a. Alæ anticæ rubiginosæ. - - - erythrocephala, *Wien. Verz.*

b. Alæ anticæ cinereo-ferrugineæ. - - - Silene, *Wien. Verz.*

C. Alæ anticæ cinereæ.

A. Alæ anticæ fascia ferruginea. - - - mansueta, *Herr.-Schæff.*

B. Alæ anticæ ferrugineo non fasciatæ. - - - intricata, *Boisd.*

1. CERASTIS BUXI.

Pallide testacea ; alæ anticæ punctis posterioribus, guttis costalibus, lineisque duabus exterioribus transversis guttularibus nigris ; posticæ cinereæ, litura discali nigricante, ciliis albidis.

Cerastis Buxi, *Boisd. Ind. Méth.* 147, 1189. *Guen. Ann. Soc. Ent. Fr.* vi. 242 ; *Noct.* i. 378, 631. *Herr.-Schæff. Schmett. Eur.* ii. 322, 426, pl. 19, f. 92, 93.

Orthosia Daubei, *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 331, pl. 30. South France.

a—c. Europe. From M. Becker's collection.

2. CERASTIS MANSUETA.

Cinerea ; alæ anticæ ex parte obscuriores, lineis transversis undulatis strigisque costalibus nigris, guttis exterioribus costalibus et discalibus albis, fascia media ferruginea ciliis cervinis ; posticæ nigro-cinereæ, ciliis pallidis.

Cerastis mansueta, *Herr.-Schæff. Schmett. Eur.* ii. 322, 428 ; ii. pl. 92, f. 472. *Guen. Noct.* i. 378, 632.

Coasts of the Sea of Marmora.

3. CERASTIS INTRICATA.

Cinerascens ; alæ anticæ venis maculaque costali apicali albidis lituris costalibus nigricantibus, maculis orbiculari et reniformi glaucescentibus connexis albido marginatis ; posticæ albidæ, fusco marginatæ.

Cerastis intricata, *Boisd. Ind. Méth.* 148, 1190. *Guen. Ann. Soc. Ent. Fr.* vi. 242 ; *Noct.* i. 379, 633. *Dup. Hist. Nat. Lép. Fr. Suppl.* iv. 89, pl. 58, f. 2.

South France.

4. CERASTIS VACCINII.

Rufo-cervina ; alæ anticæ lineis transversis fasciisque annulisque duobus discalibus cervinis ferrugineo marginatis, gutta discali fusca ; posticæ cinereæ, ciliis rufescentibus.

Var. *Alæ anticæ glaucescente-cinereo suffusæ.*

Phalæna-Noctua Vaccinii, *Linn. Syst. Nat.* 832, 166 ; *Faun. Suec.* 1212. *Gmel. ed. Syst. Nat.* i. 5, 2535, 166.

Noctua Vaccinii, *Wien. Verz.* 85, 2. *Fabr. Mant. Ins.* ii. 139, 38; *Ent. Syst.* iii. 2, 23, 51. *Esp. Schmett.* iv. pl. 161, f. 1—6. *Bork. Eur. Schmett.* iv. 739, 333. *Haw. Lep. Brit.* 212. *Hüb. Eur. Schmett. Noct.* pl. 37, f. 177. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 79, f. 1.

Noctua læta? *Fabr. Ent. Syst.* iii. 2, 39.

Cerastis Vaccinii, *Treit. Schmett. Eur.* v. 401, 3. *Boisd. Ind. Méth.* 148, 1191. *Dup. Hist. Nat. Léop. Fr. Suppl. Orthosides*, pl. 2, f. 2. *Guen. Ann. Soc. Ent. Fr.* vi. 243; *Noct.* i. 379, 634. *Herr.-Schæff. Schmett. Eur.* ii. 322, 425, pl. 89, f. 459, var. *Brigensis*.

Orrhodia Vaccinii, *Hüb. Verz. Schmett.* 231, 2318. *Steph. Cat. Brit. Lep.* 79.

Noctua (Cerastis) Vaccinii, *Meig. Handb.* 172, 65; *Syst. Besch.* iii. 156, pl. 106, f. 6.

Glæa Vaccinii, *Steph. Ill. Brit. Ent. Haust.* ii. 161. *Westw. & H. Brit. Moths*, i. 148, pl. 30, f. 5, 6.

Noctua polita, *Wien. Verz.* 85.

Glæa polita, *Steph. Ill. Brit. Ent. Haust.* ii. 162.

Noctua spadicea, *Haw. Lep. Brit.* 233.

a, b. England. Presented by H. Doubleday, Esq.

c—v. England. From Mr. Stephens' collection.

u—x. England.

y—bb. Europe. From M. Becker's collection.

5. CERASTIS SPADICEA.

Ferrugineo-cervina; *alæ anticæ lineis transversis undulatis indistinctis fuscis, guttis submarginalibus lunulisque marginalibus nigris, maculis orbiculari et reniformi pallido marginalibus; posticæ nigro-cinereæ, ciliis cervinis.*

Noctua spadicea, *Wien. Verz. R.* 6. *Hüb. Eur. Schmett. Noct.* f. 179. *Haw. Lep. Brit.* 214.

Cerastis spadicea, *Guen. Ann. Soc. Ent. Fr.* vi. 243; *Noct.* i. 380, 635. *Dup. Hist. Nat. Léop. Fr. Suppl. Orthosides*, pl. 2, f. 1.

Noctua Vaccinii, var. *Esp. Schmett.* iv. pl. 161, f. 3. *Dup. Hist. Nat. Léop. Fr.* pl. 79, f. 1. *Frey. Neu. Beit. Schmett.* i. pl. 46.

Orrhodia spadicea, *Hüb. Verz. Schmett.* 231, 2322.

Cerastis Vaccinii, var. *Treit. Schmett. Eur.* v. 403. *Boisd. Ind. Méth.* 148, 1191. *Herr.-Schæff. Schmett. Eur.* ii. 322.

Glæa spadicea, *Steph. Ill. Brit. Ent. Haust.* ii. 162.

Var. *Cinereo-cervina*; abdomen cinereum; alæ anticæ guttis basilibus punctisque submarginalibus nigris, lineis nonnullis transversis undulatis fuscis, ocellis duabus discalibus canis ferrugineo marginatis; posticæ cinereæ, fasciis duabus subobsoletis nigricantibus, basi pallidiores.

Noctua ligula, *Esp. Schmett.* pl. 166, f. 3.

Noctua subnigra, *Haw. Lep. Brit.* 215.

Cerastis dolosa, *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 301, pl. 28, f.

1. *Herr.-Schæff. Schmett. Eur.* ii. 321, 423.

Cerastis spadicea, var. B. ligula, *Guen. Noct.* i. 381.

Glæa subnigra, *Steph. Ill. Brit. Ent. Haust.* ii. 162. *Curt. Brit.*

Ent. vi. pl. 268.

Orrhodia ligula, *Steph. Cat. Brit. Lep.* 79.

a. England. Presented by J. C. Dale, Esq.

b, c. England. Presented by E. Doubleday, Esq.

d—t. England. From Mr. Stephens' collection.

v—y. England.

z—aa. Europe. From M. Becker's collection.

6. CERASTIS VERONICÆ.

Rufo-cervina; alæ anticæ maculis orbiculari et reniformi apud medium pallidis, intus flavo, extus ferrugineo marginatis; posticæ cinereæ, ciliis rufescentibus.

Noctua Veronicæ, *Hübner. Eur. Schmett. Noct.* f. 541.

Noctua cruda, *Hübner. Eur. Schmett. Noct.* f. 172.

Noctua pulverea? *Hübner. Eur. Schmett. Noct.* pl. 23, f. 169.

Noctua dolosa, *Hübner. Eur. Schmett. Noct.* f. 632.

Cerastis dolosa, *Treit. Schmett. Eur.* ii. 407; *Suppl.* x. 107.

Boisd. Ind. Méth. 148, 1192. *Herr.-Schæff. Schmett. Eur.* ii. 321.

Cerastis Veronicæ, *Guen. Noct.* i. 382, 636.

Conistra Veronicæ, *Hübner. Verz. Schmett.* 229, 2298.

Agrochola dolosa, *Hübner. Verz. Schmett.* 229, 2301.

Orrhodia cruda, *Hübner. Verz. Schmett.* 231, 2323.

Cerastis neurodes, *Herr.-Schæff. Schmett. Eur.* ii. f. 568.

Hungary.

7. CERASTIS ERYTHROCEPHALA.

Purpureo-rubiginea ; caput et thorax anticus rufo-ferruginea ; antennæ basi pallidæ ; abdomen apice lateribusque ferrugineis ; alæ anticæ ocellis duobus fasciaque marginali pallidioribus, litura discali nigra ; posticæ nigro-cinereæ, ciliis pallidis.

———, *Engr. Pap. d' Eur.* 507, b ; 510, b.

Noctua erythrocephala, *Wien. Verz.* 77, 5. *Fabr. Ent. Syst.* iii. 2, 110, 331. *Bork. Eur. Schm.* 215. *Hüb. Eur. Schm.* Noct. f. 176.

Cerastis erythrocephala, *Treit. Schm.* *Eur.* ii. 405. *Dup. Hist. Nat. Lép. Fr.* iii. 95, pl. 79. *Boisd. Ind. Méth.* 148, 1193. *Guen. Ann. Soc. Ent. Fr.* vi. 242 ; *Noct.* i. 383, 637. *Herr.-Schæff. Schm.* *Eur.* ii. 322, 424.

Orrhodia erythrocephala, *Hüb. Verz. Schm.* 231, 2316.

Var. Ferruginea ; caput rufescens ; alæ anticæ vix purpurascentes, ocellis duobus ferrugineis, exteriore nigro vario, fascia tenui exteriore guttulari fusca ; posticæ nigricantes ciliis cinereis.

———, *Engr. Pap. d' Eur.* 510, a.

Noctua glabra, *Wien. Verz.* 114, 10. *Hüb. Eur. Schm.* Noct. f. 438.

Noctua spadicea, *Bork. Eur. Schm.* iv. 339.

Noctua Vaccinii, *var. Esp. Schm.* pl. 162, f. 3, 4.

Cerastis glabra, *Treit. Schm.* *Eur.* ii. 410 ; *Suppl.* x. 108.

Cerastis erythrocephala, *var. A. glabra*, *Guen. Noct.* i. 383.

Orrhodia glabra, *Hüb. Verz. Schm.* 231, 2319.

a—m. Europe. From M. Becker's collection.

8. CERASTIS SILENE.

Cinereo-ferruginea ; alæ anticæ venis pallidioribus, lineis transversis undulatis guttisque exterioribus indistinctis, orbiculari et reniformi nigro signatis, gutta interiore nigra ; posticæ cinereæ, ciliis pallidis.

———, *Engr. Pap. d' Eur.* 417, a, b.

Phalæna-Noctua Silene, *Gmel. ed. Syst. Nat.* i. 5, 2546, 1056.

Noctua Silene, *Wien. Verz.* 85, 1. *Fabr. Mant. Ins.* ii. 141, 57 ; *Ent. Syst.* iii. 2, 31, 74. *Hüb. Eur. Schm.* Noct. pl. 37, f. 175. *Frey. Neu. Beit.* f. 426.

Bombyx Vau-punctatum, *Esp. Schm.* iii. pl. 76, f. 4.

Noctua Vau-punctatum, *Bork. Eur. Schm.* iv. 505, 201.

Noctua C-nigrum, *DeVill. Lin. Ent.* pl. 5, f. 13.

Cerastis Silene, *Treit. Schmett. Eur.* v. 412, 7. *Dup. Hist. Nat.*

Lép. Fr. vii. 102, pl. 79, f. 5. *Boisd. Ind. Méth.* 148, 1194.

Herr.-Schæff. Schmett. Eur. ii. 321, 422.

Orrhodia Silene, *Hüb. Verz. Schmett.* 231, 2315.

a, b. Europe. From M. Becker's collection.

9. CERASTIS SEROTINA.

Ferruginea; abdominis segmenta flavo marginata; alæ anticæ lineæ undulata recta, basim versus obscurius adumbrata; posticæ flavo late marginatæ.

———, *Engr. Pap. d. Eur.* 434, k.

Bombyx Fragariæ, *Esp. Schmett. Bomb.* pl. 86, f. 3.

Noctua domiduca, *Bork. Eur. Schmett.* iv. 44.

Noctua orbona, *Rossi, Faun. Etrusc.* ii. 391. *Hüb. Eur. Schmett. Noct.* 104, 604.

Cerastis serotina, *Treit. Schmett. Eur.* ii. 418. *Boisd. Ind. Méth.* 148, 1196. *Guen. Noct.* i. 385, 640. *Herr.-Schæff. Schmett. Eur.* ii. 321, 420.

Orbona serotina, *Hüb. Verz. Schmett.* 232, 2331.

Noctua serotina, *Frey. Neu. Beit.* f. 435.

East Europe.

a, b. Europe. From M. Becker's collection.

North America.

10. CERASTIS ANCHOCELIOIDES.

Cinereo-ferruginea; alæ anticæ lineis transversis undulatis indistinctis nigricantibus, orbiculari et reniformi subobsoletis; posticæ cinereæ, ciliis pallidioribus.

Cerastis anchocelioides, *Guen. Noct.* i. 384, 639.

a—f. Trenton Falls, New York. Presented by E. Doubleday, Esq.

11. CERASTIS? PRODEUNS.

Mas. Rufo-cervina; palporum articulus 3us longiusculus; abdomen cinereum; alæ anticæ lineis transversis fusciscentibus subobsoletis, orbiculari obsoleta, reniformi indistincta albo notata; posticæ fusciscente-cinereæ, ciliis pallidis.

Male. Reddish fawn-colour. Abdomen cinereous. Third joint of the palpi much longer than in the other species of the genus. Fore wings with the transverse lines brownish and very indistinct, especially the interior two; orbicular spot obsolete; reniform indistinct, but including a white spot. Hind wings brownish cinereous, with pale ciliæ. Length of the body 5 lines; of the wings 12 lines.

a. Nova Scotia. From Lieut. Redman's collection.

Australia:

12. CERASTIS PUNCTOSA.

Fœm. *Cinerea*; *alæ anticæ fusco subconspersæ, guttis costalibus nigricantibus, lineis transversis fuscis guttularibus, orbiculari et reniformi e annulis duobus pallide cinereis, hac angusta, illa obliqua elliptica, ciliis purpurascensibus.*

Female. Cinereous. Fore wings minutely speckled with brown, with blackish dots along the costa, and with the usual transverse lines composed of brown dots; orbicular and reniform spots forming two pale cinereous ringlets, the former oblique-elliptical, rather small, the latter rather narrow; ciliæ purplish; under side with broad purplish borders, bounded on the inner side by a brown line. Length of the body 6 lines; of the wings 14 lines.

a. New Holland. Presented by Major-General Hardwicke.

Genus 13. EUPSILIA.

Corpus robustum. Proboscis brevis. Palpi breves, validi, pilosi, caput non superantes; articulus 3us minimus. Antennæ corporis dimidio valde longiores. Thorax cristatus. Abdomen latum, depressum, alas posticas triente superans. Pedes validi; tibiæ posticæ calcaribus quatuor breviusculis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rectangulatæ, margine exteriore denticulato convexo subobliquo. Mas.—Antennæ subciliatæ.

Eupsilia, Hübn. Verz. Schmett. 231.

Scopelosoma, Curt. Brit. Ent. 635; *Guen. Noct.* i. 385.

Micoptera, Guen. Ann. Soc. Ent. Fr. vi. 225; viii. 499.

Cerastis, p., Ochs.; Treit.; Boisd.; Herr.-Schæff.

Glæa, p., Steph.

Body stout. Proboscis short. Palpi short, stout, pilose, not extending beyond the head; third joint very minute. Antennæ much more than half the length of the body. Thorax crested. Abdomen broad, flat, extending for one-third of its length beyond

the hind wings. Legs stout; hind tibiæ with four rather short spurs. Wings moderately broad. Fore wings straight in front, nearly rectangular at the tips, denticulated convex and slightly oblique along the exterior border. *Male*.—Antennæ very minutely ciliated.

Europe.

1. EUPSILIA SATELLITIA.

Rufo-ferruginea; abdomen rufo-cinereum; alæ anticæ lineis transversis rectis et undulatis obscurioribus; alæ anticæ gutta punctisque duabus contiguis discalibus albis; posticæ cinereæ.

———, *Engr. Pap. d'Eur.* 511, a, b, c. *Röes. Ins Bel.* iii. pl. 50, f. 1—4.

Phalæna-Noctua satellitia, *Gmel. ed. Syst. Nat.* i. 5, 2573, 176.

Noctua satellitia, *Wien. Verz.* 86, 5. *Fabr. Sp. Ins.* ii. 230, 104;

Mant. Ins. ii. 165, 205; *Ent. Syst.* iii. 87, 256. *Esp. Schmett.*

iv. pl. 169, f. 6—10. *Bork. Eur. Schmett.* iv. 736, 333.

Hüb. Samml. Eur. Schmett. pl. 38, f. 182. *Donov. Nat.*

Hist. Brit. Ins. v. pl. 168. *Haw. Lep. Brit.* 201.

Noctua transversa, *Hüb. Berl. Mag.* iv. 418.

Cerastis satellitia, *Treit. Schmett. Eur.* v. 414, 8. *Dup. Hist. Nat.*

Lép. Fr. vii. 116, pl. 80, f. 4. *Boisd. Ind. Méth.* 148, 1195.

Herr.-Schæff. Schmett. Eur. ii. 321, 421.

Glæa satellitia, *Steph. Ill. Brit. Ent. Haust.* ii. 163.

Scopelosoma satellitia, *Curt. Brit. Ent.* 635. *Guen. Noct.* i. 386, 641.

Mecoptera satellitia, *Guen. Ann. Soc. Ent. Fr.* 243.

Noctua (Cerastis) satellitia, *Meig. Handb.* 172, 64; *Syst. Besch.* iii. 156, 137, pl. 106, f. 5.

Eupsilia satellitia, *Hüb. Verz. Schmett.* 231, 2324.

a. England. Presented by J. C. Dale, Esq.

b—f. England. Presented by H. Doubleday, Esq.

g—x.

y, z. Europe. From M. Becker's collection.

North America.

2. EUPSILIA SIDUS.

E. satellitiæ simillima; alæ anticæ latiores, breviores, plus unicolores, dentibus magis rotundatis, costa convexiore, margine exteriori minus rotundata, interioris basi plus arcuata, lineis rix distinctis.

Scopelosoma sidus, *Guen. Noct.* i. 386, 642.

North America.

Genus 14. DASYCAMP.

Corpus robustum. Caput cristatum. Proboscis mediocriter longa. Palpi porrecti, pilosissimi, caput paullo superantes; articulus 2us 3o longi-conico triplo longior. Antennæ corporis dimidio multo longiores. Thorax subcristatus. Abdomen depressum, alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor breviusculis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rectangulatæ, margine exteriori subconvexo mediocriter obliquo. *Mas.*—Antennæ vix ciliatæ.

Dasycampa, *Guen. Ann. Soc. Ent. Fr.* vi. 224; viii. 497; *Noct.* i. *Orrhodia*, p., *Hüb. Verz. Schmett.* 231.

Cerastis, p., *Ochs.*; *Treits.*; *Boisd.*; *Steph.*

Omalosoma, *Duponch.*

Body stout. Head crested. Proboscis moderately long. Palpi porrect, very pilose, extending a little beyond the head; third joint elongate-conical, about one-third of the length of the second. Antennæ much more than half the length of the body. Thorax slightly crested. Abdomen flat, extending a little beyond the hind wings. Legs stout; hind tibiæ with four rather short spurs. Wings moderately broad. Fore wings straight in front, rectangular at the tips, slightly convex and moderately oblique along the exterior border. *Male.*—Antennæ hardly ciliated.

1. DASYCAMP. RUBIGINEA.

Ferrugineo-fulva; antennæ nigræ; abdominis discus fuscus; alæ anticæ lineis transversis denticulatis fuscis, macula discali guttisque plurimis nigris; posticæ nigricantes, ciliis fulvis.

———, *Eng. Pap. d'Eur.* 512, a—d.

Phalæna-Noctua rubiginea, *Gmel. ed. Syst. Nat.* i. 5, 2546, 1054.

Noctua rubiginea, *Wien. Verz.* 86, 8. *Fabr. Mant. Ins.* ii. 142, 59; *Ent. Syst.* iii. 31, 76. *Bork. Eur. Schmett.* iv. 750, 340. *Hüb. Samml. Eur. Schmett. Noct.* pl. 38, f. 183. *Haw. Lep. Brit.* 204. *Dup. Hist. Nat. Léop. Fr.* vii. 137, pl. 109, f. 6. *Frey. Neu. Beit. Schmett.* i. pl. 45.

Dasyampa rubiginea, *Boisd. Ind. Méth.* 147, 1188. *Herr.-Schæff. Schmett. Eur.* ii. 322, 427. *Guen. Ann. Soc. Ent. Fr.* vi. 243; *Noct.* i. 387, 643.

Noctua (*Xanthia*) *rubiginea*, *Meig. Handb.* 171, 62; *Syst. Besch.* iii. 164, 154, pl. 108, f. 1.

Orrhodia rubiginea, *Hüb. Verz. Schmett.* 231, 2317.

Noctua tigrina, *Esp. Schmett.* iv. pl. 123, f. 4.

Noctua sulphurago? *Bork. Eur. Schmett.* iv. 679, 293.

Cerastis rubiginea, *Treit. Schmett. Eur.* 398, 2. *Steph. Ill. Brit. Ent. Haust.* ii. 161.

Omalosoma rubiginea, *Dup. Hist. Nat. Lép. Fr.* vii. *Orthosides*, pl. 1, f. 2.

a. England. From Mr. Stephens' collection.

b. England.

c-f. Europe. From M. Becker's collection.

Genus 15. HOPORINA.

Corpus mediocriter robustum. Caput antice conicum. Proboscis breviuscula. Palpi crassi, pilosi, vix ascendentes. Caput longe superantes; articulus 2us 3o conico quadruplo longior. Antennæ simplices, corporis dimidio valde longiores. Thorax cristatus. Abdomen alas posticas vix superans. Pedes validi; tibiæ posticæ calcaribus quatuor breviusculis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rectangulatæ, margine exteriori recto vix obliquo.

Hoporina, *Boisd. Ind. Méth.* 147; *Dup. Cat.*; *Herr.-Schæff.*; *Guen. Noct.* i. 388.

Xanthia, p., *Ochs.*; *Treit.*; *Steph.*; *Guen.*; *Dup.*

Jodia, p., *Hüb. Verz. Schmett.* 234.

Xantholeuca, *Steph.*

Body moderately stout. Head conical in front. Proboscis rather short. Palpi pilose, hardly ascending, very stout, extending far beyond the head; third joint conical, not more than one-fourth of the length of the second. Antennæ simple, much more than half the length of the body. Thorax crested. Abdomen hardly extending beyond the hind wings. Legs stout; hind tibiæ with four rather short spurs. Wings moderately broad. Fore wings straight in front, rectangular at the tips, straight and hardly oblique along most of the exterior border.

1. HOPORINA CROCEAGO.

Ochracea; abdomen albidum; alæ anticæ lineolis costalibus albis, annulis duobus testaceis, lineis tribus obliquis cinereis; posticæ albidæ, gutta lineaque discalibus cinereis.

———, *Albin*, *Nat. Hist. Engl. Ins.* pl. 15, 22.

Phalæna-Noctua croceago, *Gmel. ed. Syst. Nat.* i. 5, 2578, 1189.
Engr. Pap. d'Eur. 518, a—c.

Noctua croceago, *Wien. Verz.* 86, 2. *Fabr. Mant. Ins.* ii. 159, 163;
Ent. Syst. iii. 2, 73, 209. *Bork. Eur. Schmett.* iv. 665, 285.
Hübner. Samml. Eur. Schmett. pl. 40, f. 189. *Haw. Lep. Brit.* 227.

Noctua fulvago, *Hübner. Beit. Ges. Schmett.* pl. 1, f. F. *Esp. Schmett.* pl. 176, f. 3, 4.

Noctua aurantiago, *Donov. Nat. Hist. Brit. Ins.* v. pl. 150.

Hoporina croceago, *Boisd. Ind. Méth.* 147, 1187. *Herr.-Schæff. Schmett. Eur.* ii. 320, 419. *Guen. Noct.* i. 389, 644. *Stainton, Man.* 251.

Xanthia croceago, *Treit. Schmett.* v. 360, 11. *Dup. Hist. Nat. Léop. Fr. Suppl.* vii. *Orthosides*, pl. 1, f. 1.

Noctua (Xanthia) croceago, *Meig. Syst. Besch.* iii. 161, 146, pl. 107, f. 3.

Jodia croceago, *Hübner. Verz. Schmett.* 234, 2342.

Xantholeuca croceago, *Steph. Ill. Brit. Ent. Haust.* iii. 67. *Westw. & H. Brit. Moths*, i. 211, pl. 45, f. 9, 10.

a—h. England. From Mr. Stephens's collection.

i—k. England.

l—n. Europe. From M. Becker's collection.

o. Europe. From Mr. Milne's collection.

p, q. Europe.

Genus 16. XANTHIA.

Corpus vix robustum. Caput antice subconicum. Proboscis mediocriter longa. Palpi graciles, porrecti, caput sat superantes; articulus 3us cylindricus, 2i dimidio vix brevior. Antennæ sat validæ, corporis dimidio longiores. Abdomen sat gracile. Pedes validi; tibie posticæ calcaribus quatuor abbreviatis. Alæ mediocriter latæ; anticæ sæpissime flavæ aut ochraceæ, apud costam subrectæ, apice rectangulatæ, margine exteriore subobliquo, plus minusve undulato. *Mas.*—Antennæ ciliatæ. Abdomen alas posticas paullo superans. *Fæm.*—Abdomen alas posticas non superans.

Xanthia, *Guen. Ann. Soc. Ent. Fr.* viii. 490; *Noct.* i. 389.

Xanthia, p., *Ochs. Treit. Boisd. Dup. Steph.*

Jodia, *Cirrhia*, *Citria*, *Ochria*, *Mellinia*, *Orthosia*, p., *Atypha* et *Sideridis*, *Hübner*.

Orthosia, p., *Steph.*

Xanthia, *Orthosia*, p., et *Caradrina*, p., *Herr.-Schæff.*

Body hardly stout. Head slightly conical in front. Proboscis moderately long. Palpi slender, porrect, extending some distance beyond the head; third joint cylindrical, nearly half the length of the second. Antennæ rather stout, more than half the length of the body. Abdomen rather slender. Legs stout; hind tibiæ with four short spurs. Wings moderately broad. Fore wings mostly yellow or orange, nearly straight in front, rectangular at the tips, slightly oblique and more or less undulating along the exterior border. *Male*.—Antennæ ciliated. Abdomen extending a little beyond the hind wings. *Female*.—Abdomen not extending beyond the hind wings.

Europe.

A. *Alæ anticæ lineis transversis.*

A. *Alæ anticæ ochraceæ aut pallidæ.*

A. *Alæ anticæ albo non notatæ.*

a. *Alæ anticæ linea nulla undulata.* - citrago, *Linn.*

b. *Alæ anticæ linea undulata.* - sulphurago, *Wien. Verz.*

B. *Alæ anticæ albo notatæ.* - - - ocellaris, *Bork.*

B. *Alæ anticæ cervinæ.*

A. *Alæ anticæ macula nulla nigricante.* - evidens, *Treit.*

B. *Alæ anticæ macula nigricante.* - - pulmonaris, *Esp.*

B. *Alæ anticæ fasciis latis diffusis.*

A. *Alæ anticæ flavæ.* - - - Cerago, *Wien. Verz.*

B. *Alæ anticæ luteæ.*

A. *Alæ anticæ fascia nulla marginali.* - - Silago, *Hübner.*

B. *Alæ anticæ fascia lata marginali.* - aurago, *Wien. Verz.*

C. *Alæ anticæ cervinæ.*

A. *Alæ posticæ linea nulla.* - - - - gilvago, *Esp.*

B. *Alæ posticæ linea fusca.* - - - evidens, *Hübner.*

I. XANTHIA CITRAGO.

Lutea; abdomen testaceo-albidum; *alæ anticæ cervino conspersæ, lineis quatuor transversis obliquis saturatioribus, 1a et 2a undulatis, 3a et 4a subrectis; posticæ testaceo-albidæ.*

- , *Albin*, *Ins.* pl. 33. *Wilk. Pap.* 5, pl. 1, a. 8.
Deg. Ins. ii. 429, pl. 7, f. 25. *Engr. Pap. d'Eur.* 527, a—c.
Phalæna-Noctua citrigo, *Linn. Faun. Suec.* 1174. *Gmel. ed. Syst. Nat.* i. 5, 2577, 189.
Noctua citrigo, *Wien. Verz.* 86, 3. *Fabr. Sp. Ins.* ii. 226, 88;
Mant. Ins. ii. 160, 168; *Ent. Syst.* iii. 2, 75, 215. *Esp. Schmett.* iv. pl. 175, f. 5, 6. *Sepp. Ins.* iii. pl. 48. *Bork. Eur. Schmett.* iv. 667, 286. *Hüb. Samml. Eur. Schmett. Noct.* pl. 39, f. 188. *Haw. Lep. Brit.* 226. *Dup. Hist. Nat. Lép. Fr.* vii. pl. 128, f. 2, 3. *Frey. Beit.* iv. pl. 376.
Xanthia citrigo, *Treit. Schmett.* v. 357, 10. *Boisd. Ind. Méth.* 146, 1186. *Steph. Ill. Brit. Ent. Haust.* iii. 66. *Guen. Noct.* i. 392, 645. *Stainton, Man.* 252.
Noctua (Xanthia) citrigo, *Meig. Syst. Besch.* iii. 2, 160, 145, pl. 107, f. 12.
Cirrha citrigo, *Hüb. Verz. Schmett.* 234, 2343.
a—e. England. Presented by O. Reilly, Esq.
f—p. England. From Mr. Stephens' collection.
q, r. Europe. From M. Becker's collection.

2. XANTHIA SULPHURAGO.

Pallide lutescens; abdomen testaceum; alæ anticæ fascia tenui media undulata auriculaque discali nigricantibus lineis transversis sæpissime guttularibus fuscis; posticæ albidæ.

- Phalæna-Noctua sulphurago*, *Gmel. ed. Syst. Nat.* i. 5, 2578, 1187.
Noctua sulphurago, *Wien. Verz.* 86, 8. *Fabr. Mant. Ins.* ii. 159, 165; *Ent. Syst.* iii. 74, 212. *Bork. Eur. Schmett.* iv. 293?
Thunb. Diss. Ent. 54. *Hüb. Eur. Schmett. Noct.* pl. 41, f. 194. *Dup. Hist. Nat. Lép. Fr.* vii. pl. 128, f. 5.
Noctua ochrago, *Esp. Schmett.* iv. pl. 177, f. 1.
Noctua fulvago, *Esp. Schmett.* 678. *Bork. Eur. Schmett.* iv. 664, 284.
Xanthia sulphurago, *Treit. Schmett.* v. 365, 13. *Boisd. Ind. Méth.* 146, 1184. *Guen. Noct.* i. 392, 647. *Herr.-Schæff. Schmett. Eur.* ii. 218, 111.
Cirrha fulvago, *Hüb. Verz. Schmett.* 234, 2344.
Noctua (Xanthia) sulphurago, *Meig. Syst. Besch.* iii. 164, 153, pl. 107, f. 13.
a—c. Europe. From M. Becker's collection.

3. XANTHIA CERAGO.

Flava ; palpi, antennæ pedesque supra subrosea ; abdomen testaceum ; alæ anticæ luteo obsolete variæ, annulo parvo discali punctoque subapicali nigris ; posticæ albæ.

———, *Engr. Pap. d'Eur.* 522, a—c.

Phalæna-Noctua gilvago, *Gmel. ed. Syst. Nat.* i. 5, 2577, 1181.

Phalæna-Noctua Cerago, *Gmel. ed. Syst. Nat.* i. 5, 2577, 1186.

Noctua flavescens, *Esp. Schmett.* iv. pl. 122, f. 2. *Bork. Eur. Schmett.* iv. 684, 297.

Noctua gilvago, *Wien. Verz.* 87, 10. *Fabr. Mant.* ii. 161, 172 ; *Ent. Syst.* iii. 2, 76, 219.

Noctua Cerago, *Wien. Verz.* 86, 9. *Fabr. Ent. Syst.* iii. 2, 75, 213 ; *Bork. Eur. Schmett.* iv. 68, 294. *Hübner. Samml. Eur. Schmett. Noct.* f. 445. *Scriba, Beit. Ins. Ges.* 141, pl. 10, f. 1. *Haw. Lep. Brit.* 222. *Dup. Hist. Nat. Lép. Fr.* viii. pl. 129, f. 1, 2.

Xanthia gilvago, *Steph. Ill. Brit. Ent. Haust.* iii. 65.

Xanthia Cerago, *Treit. Schmett.* v. 370, 15. *Steph. Ill. Brit. Ent. Haust.* iii. 64. *Boisd. Ind. Méth.* 146, 1182. *Guen. Noct.* i. 393, 648. *Herr.-Schæff. Schmett. Eur.* ii. 217, 109. *Stainton, Man.* 252.

Noctua (Xanthia) Cerago, *Meig. Handb.* 170, 58, pl. 13, f. 8 ; *Syst. Besch.* iii. 162, 149, pl. 107, f. 8.

Citria Cerago, *Hübner. Verz. Schmett.* 234, 2345.

a. England. From Mr. Carter's collection.

b—f. England. From Mr. Stephens' collection.

g—j. Europe. From M. Becker's collection.

4. XANTHIA SILAGO.

Lutea ; caput ferrugineum ; thorax fascia antica ferruginea fusco marginata, fasciculis posticis albidis ; alæ anticæ guttis nonnullis, maculis costalibus fasciaque exteriore ferrugineis ; posticæ luteo-albidæ, linea discali fuscescente.

———, *Engr. Pap. d'Eur.* 524, a—c.

Phalæna-Noctua flavago, *Gmel. ed. Syst. Nat.* i. 5, 2577, 1182.

Noctua flavago, *Fabr. Mant. Ins.* ii. 160, 171 ; *Ent. Syst.* iii. 2, 76, 218. *Scriba, Beit. Ins. Gesch.* 142, pl. 10, f. 2. *Haw. Lep. Brit.* 220.

Noctua togata, *Esp. Schmett.* iv. pl. 124, f. 1.

Noctua ochreago, *Bork. Eur. Schmett.* iv. 671, 288.

Noctua citrargo, *Wilk.* pl. 8.

- Noctua rubago*, *Donov. Nat. Hist. Brit. Ins.* x. pl. 338.
Noctua (*Xanthia*) *Silago*, *Meig. Handb.* 170, 57, pl. 13, f. 7; *Syst. Besch.* iii. 162, 148, pl. 107, f. 5.
Xanthia flavago, *Steph. Ill. Brit. Ent. Haust.* iii. 64. *Stainton, Man.* 252.
Noctua Silago, *Hübner. Eur. Schmiett. Noct.* pl. 40, f. 191. *Dup. Hist. Nat. Léop. Fr.* iv. 462, pl. 120. *Frey. Beit.* ii. pl. 135.
Citria Silago, *Hübner. Verz. Schmiett.* 234, 2346.
Xanthia Silago, *Treit. Schmiett.* v. 367, 14. *Boisd. Ind. Méth.* 146, 1181. *Guen. Noct.* i. 394, 649. *Herr.-Schæff. Schmiett. Eur.* ii. 217, 110.
a—u. England. From Mr. Stephens' collection.
w—z. England.
aa—dd. Europe. From M. Becker's collection.
ee. Germany.
ff—ii. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

5. XANTHIA AURAGO.

Lutea aut crocea; alæ anticæ croceæ, fascia media latissima maculoque apicali croceis aut luteis croceo conspersis; posticæ albido-testaceæ.

- , *Engr. Pap. d'Eur.* 520, a—c; 521, a—d.
Phalæna-Noctua aurago, *Gmel. ed. Syst. Nat.* i. 5, 2578, 1188.
Noctua aurago, *Wien. Verz.* 86, 7. *Fabr. Mant. Ins.* ii. 159, 164; *Ent. Syst.* iii. 2, 74, 211. *Bork. Eur. Schmiett.* iv. 675, 291. *Hübner. Samml. Eur. Schmiett. Noct.* pl. 41, f. 196, 197. *Haw. Lep. Brit.* 218. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 128, f. 4.
Noctua prætexta, *Esp. Schmiett.* iv. pl. 124, f. 2.
Noctua rutilago, *Bork. Eur. Schmiett.* iv. 290. *Hübner. Beit. Ges. Schmiett.* pl. 2, 4.
Noctua fucata, *Esp. Schmiett.* 243, 2338.
Ochria aurago, *Hübner. Verz. Schmiett.* pl. 124, f. 3, 4.
Xanthia aurago, *Treit. Schmiett.* v. 363, 12. *Steph. Ill. Brit. Ent. Haust.* iii. 65. *Boisd. Ind. Méth.* 146, 1180. *Guen. Noct.* i. 394, 650. *Herr.-Schæff. Schmiett. Eur.* ii. 216, 107. *Stainton, Man.* 252.
Noctua (*Xanthia*) *aurago*, *Méiy. Syst. Besch.* iii. 161, 147, pl. 107, f. 4.
a—h. England. From Mr. Stephens' collection.
i, j. England.
k, l. Europe. From M. Becker's collection.

6. XANTHIA GILVAGO.

Cervina ; alæ anticæ strigulis transversis subobsoletis obscurioribus, gutta discali cinerea, punctis exterioribus nigris ; posticæ albido-testaceæ. Mas.—Abdomen cervinum ; alæ anticæ plagi indistinctis cinereis, punctis ciliaribus nigricantibus. Fœm.—Abdomen albido-testaceum.

———, *Engr. Pap. d' Eur.* 525, a—c.

Noctua gilvago, *Esp. Schmett.* pl. 176, f. 2. *Hübner. Samml. Eur. Schmett.* f. 443. *Dup. Hist. Nat. Lép. Fr.* iv. 465, pl. 129, f. 4, 5.

Xanthia gilvago, *Boisd. Ind. Méth.* 1183. *Guen. Noct.* i. 395, 652. *Herr.-Schæff. Schmett. Eur.* ii. 217, 109. *Stainton, Man.* 253.

Noctua palleago, *Hübner. Eur. Schmett. Noct.* f. 442. *Dup. Hist. Nat. Lép. Fr.* vii. 468, pl. 130, f. 1.

Xanthia palleago, *Treit. Schmett.* v. 377.

Mellinia gilvago, *Hübner. Verz. Schmett.* 235, 2348.

a—g. Europe. From M. Becker's collection.

7. XANTHIA OCELLARIS.

Mas. *Ochracea* ; abdomen pallidum ; alæ anticæ lineis transversis undulatis basalibus et macularum marginibus obscurioribus, guttis exterioribus nigricantibus, reniformi postice albo signata ; posticæ citrinæ, margine lutescente. Fœm.—Testacea ; alæ anticæ fasciis annuloque postico distinctis ; posticæ albæ.

———, *Engr. Pap. d' Eur.* 523, e.

Noctua ocellaris, *Bork. Eur. Schmett.* iv. 273.

Noctua palleago, *Hübner. Eur. Schmett. Noct.* f. 192, 442.

Xanthia gilvago, *Treit. Schmett. Eur.* ii. 373. *Eversm. Faun. Volg-Ural.* 278.

Xanthia ocellaris, *Guen. Noct.* i. 396, 653.

Mellinia palliago, *Hübner. Verz. Schmett.* 235, 2347.

Europe.

8. XANTHIA FERRUGINEA.

Rufo-cervina ; antennæ testaceæ ; abdomen rufescens ; alæ anticæ ocellis duobus lineisque transversis undulatis testaceis, his fusco marginatis, fasciis duabus subobsoletis ferrugineis ; posticæ cinereæ, marginibus pallide rufescentibus.

- , *Engr. Pap. d'Eur.* 408, a—c.
Noctua ferruginea, *Wien. Verz.* 86, 7. *Hübner. Samml. Eur. Schmett. Noct.* pl. 38, f. 181. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 130, f. 2. *Frey. Beit.* pl. 123.
Bombyx fuscago, *Esp. Schmett.* iii. pl. 75, f. 5.
Noctua circellaris, *Naturf.* ix. 134. *Bork. Eur. Schmett.* iv. 669, 287.
Noctua undosa, *Bork. Eur. Schmett.* iv. 753, 342.
Noctua undata, *View. Verz. Schmett.* 17, pl. 1, f. 2.
Noctua macilenta, *Hübner. Eur. Schmett. Noct.* f. 688, 689.
Xanthia ferruginea, *Treit. Schmett.* v. 349. *Boisd. Ind. Méth.* 145, 1174. *Guen. Noct.* i. 397, 656. *Stainton, Man.* 253.
Orthosia macilenta, *Hübner. Verz. Schmett.* 229, 2294. *Steph. Ill. Brit. Ent. Haust.* iii. 148. *Herr.-Schæff. Schmett. Eur.* ii. 205, 78. *Stainton, Man.* 246.
Noctua (Xanthia) ferruginea, *Meig. Syst. Besch.* iii. 158, 140, pl. 107, f. 2.
a—k. England. From Mr. Stephens' collection.
l. Scotland. From Mr. Foxcroft's collection.
m. n. England.
o—s. Europe. From M. Becker's collection.

9. XANTHIA PULMONARIS.

Cervina ; abdomen cinereum, basi canum ; alæ anticæ lineis nonnullis transversis undulatis fuscis, macula discali nigricante ; posticæ cinereæ, basi reallidiores.

- Noctua pulmonaris*, *Esp. Schmett.* iv. pl. 151, f. 5. *Hübner. Samml. Eur. Schmett. Texte. Frey. Neu. Beit. Schmett.* iii. pl. 215.
Noctua Pulmonariæ, *Hübner. Samml. Eur. Schmett. Noct.* f. 98.
Noctua ochreago, *Fabr. Suppl.* 218, 219.
Noctua fuscago, *Esp. Schmett.* pl. 176, f. 5, 6.
Atypha pulmonaris, *Hübner. Verz. Schmett.* 213, 2129.
Xanthia pulmonaris, *Treit. Schmett. Eur.* ii. 342. *Boisd. Ind. Méth.* 145, 1175. *Guen. Noct.* i. 398, 657.
Caradrina pulmonaris, *Herr.-Schæff. Schmett. Eur.* ii. 213, 101.
a—d. Europe. From M. Becker's collection.

10. XANTHIA EVIDENS.

Sordide cervina ; alæ anticæ fasciis undulatis rectisque et macularum marginibus fuscis ; posticæ albidæ, linea fusca, margine cinereo.

Noctua evidens, *Hübner. Samml. Eur. Schmett. Noct. f. 369.*

Xanthia evidens, *Treit. Schmett. v. 351, 6. Dup. Hist. Nat. Lép.*

Fr. vii. 457, pl. 128, f. 6; Suppl. iii. 442, pl. 39. Eversm.

Faun. Volg-Ural. 276. Boisd. Ind. Méth. 145, 1173.

Sideridis evidens, *Hübner. Verz. Schmett. 232, 2326.*

Noctua (Xanthia) evidens, *Meig. Syst. Besch. iii. 157, 138, pl. 107, f. 16.*

Xanthia ? evidens, *Guen. Noct. i. 399, 658.*

Orthosia evidens, *Herr.-Schæff. Schmett. Eur. ii. 203, 71.*

Hungary. South Russia.

North America.

11. XANTHIA RUFAGO.

Ferruginea; abdomen et alæ posticæ cinerea; anticæ maculis duabus transversis discalibus lineolisque duabus subapicalibus, una recta, altera undulata, nigris.

Jodia rufago (Noctua genuina, Xanthia plana), Hübner. Samml.

Exot. Schmett. i. 15, 31, f. 61, 62; Verz. Schmett. 234, 2341.

Xanthia rufago, Guen. Noct. i. 392, 646.

Georgia, Florida.

12. XANTHIA AURANTIAGO.

Rufa; abdomen testaceum; alæ anticæ lineis duabus transversis undulatis nigris, maculis obsoletis; posticæ testacæ, margine lato rufo.

Xanthia aurantiago, Guen. Noct. i. 394, 651.

a. East Florida. Presented by E. Doubleday, Esq.

13. XANTHIA BICOLORAGO.

Lutescens; abdomen pallidum; alæ anticæ linea transversa undulata dimidioque exteriori cinereo-fuscis; posticæ cinereo-fuscæ, ciliis pallidis.

Xanthia bicolorago, Guen. Noct. i. 397, 655.

a. New York. Presented by E. Doubleday, Esq.

West Indies.

14. XANTHIA VIRIDESCENS.

Fœm. *Pallidissime viridis, subtus albida; palporum articulus 2us 3o conico quadruplo longior; antennæ fulvæ, simplices; abdomen testaceum, basi apiceque albidum; alæ anticæ fasciis tribus angustis obliquis guttisque exterioribus obscurioribus, orbiculari et reniformi marginibus obscurioribus; posticæ albæ.*

Female. Very pale green, whitish beneath. Third joint of the palpi conical, not more than one-fourth of the length of the second. Antennæ tawny, simple. Abdomen testaceous, whitish at the base and at the tip. Fore wings with three slender oblique darker green bands, and a row of exterior darker green dots; orbicular and reniform spots bordered with darker green, the former nearly round, hardly half the size of the latter. Hind wings white. Length of the body 6 lines; of the wings 14 lines.

a. St. Domingo. From Mr. Tweedie's collection.

South America.

15. XANTHIA PRASINA.

Fœm. *Pallide viridis, subtus alba; antennæ rufescentes; abdomen pallidissime cervinum, basi lateribusque albis; pedes antici rufi; alæ anticæ fasciis quinque aut sex angustis obliquis obscurioribus, costa margineque exteriori rufescentibus, maculis obsoletis; posticæ albæ.*

Female. Pale green, white beneath. Antennæ reddish. Abdomen very pale fawn-colour, white on each side and at the base. Fore legs red. Fore wings with five or six slender oblique darker green bands, reddish along the costa and along the exterior border; spots obsolete. Hind wings white. Length of the body 6 lines; of the wings 14 lines.

This species much resembles *X. viridescens*, but may be distinguished by the head, which is green, not white, by the number and direction of the bands of the fore wings, by the red exterior border, and by the hind wings, which are wholly white, whereas in *X. viridescens* they are testaceous along the interior border and pale brown along the exterior one. Length of the body 6 lines; of the wings 14 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

16. *XANTHIA PYRALOIDES*.

Mas. *Pallidissime viridis; antennæ albidæ, simplices, graciles, corporis dimidio non longiores; abdomen album, supra vix testaceum; alæ anticæ fasciis obliquis subobsoletis subobscurioribus; posticæ albæ.*

Male. Very pale green. Antennæ whitish, simple, slender, full half the length of the body. Abdomen white, with a slight testaceous tinge above. Fore wings with oblique almost obsolete slightly darker bands. Hind wings white, very iridescent. Length of the body $5\frac{1}{2}$ lines; of the wings 11 lines.

a. Venezuela. From Mr. Dyson's collection.

17. *XANTHIA MULTIFASCIA*.

Mas. *Roseo-rufa; caput supra et thoracis latera pilis nonnullis albidis; palpi ascendentes; antennæ serratæ, corporis dimidio non longiores; abdomen album, alas posticas triente superans; alæ anticæ lineis tribus albis obliquis subundulatis, margine inferiore ex parte flavo, plaga flavo rufo guttata apud costæ medium, gutta inferiore macula orbiculari guttisque submarginalibus fuscis; posticæ albæ, valde iridescentes.*

Male. Rosy red. Palpi ascending. Head above and sides of the thorax with some white hairs. Antennæ serrated, about half the length of the body. Abdomen white, shining, extending for full one-third of its length beyond the hind wings. Fore wings with three white oblique slightly undulating lines, partly yellow along the interior border, and with a yellow red-dotted patch by the middle of the costa; a brown dot between the base of the wing and the orbicular spot, which is brown, nearly round, and rather small; reniform red, rather narrow, its fore part in the yellow patch; a row of brown dots near the exterior border. Hind wings white, very iridescent. Length of the body 7 lines; of the wings 14 lines.

a. Parà. From Mr. Bates' collection.

Africa.

18. *XANTHIA BREVICORNIS*.

Mas. *Pallide lutescens; palporum articulus 3us brevissimus; antennæ serratæ, corporis dimidio paullo breviores; abdomen testaceum; alæ anticæ flavæ, fasciis exterioribus diffusis viridi-fuscis albedo interlineatis, reniformi viridi-fusca lunulam albidam includente; posticæ albidæ, gutta discali linea exteriori margineque fusciscentibus.*

Male. Dull pale luteous. Third joint of the palpi not more than one-sixth of the length of the second. Antennæ serrated, a little less than half the length of the body. Abdomen testaceous. Fore wings yellow, with greenish brown diffuse exterior bands, which are intersected by whitish shining transverse undulating lines; reniform spot greenish brown, enclosing a whitish shining lunule. Hind wings whitish, with a discal dot, an exterior line, and the border brownish. Length of the body 6 lines; of the wings 14 lines.

a. Congo. Presented by Sir J. Richardson.

Asia.

19. XANTHIA IMPARATA.

Fœm. *Pallidissime flava*; *antennæ fusæ*; *abdomen alas posticas non superans, segmentis luteo fasciatis*; *alæ anticæ lineis transversis undulatis luteis lineisque exterioribus fusciscentibus, margine exteriori fusciscente guttis obscure fuscis, reniformi fusca subrotunda*; *posticæ albæ, marginibus pallide flavescentibus.*

Female. Very pale yellow. Antennæ brown. Abdomen not extending beyond the hind wings, with a slender luteous band on each segment. Fore wings with undulating transverse luteous lines, and with exterior brownish lines; exterior margin brownish, with a row of dark brown dots; claviform and orbicular spots obsolete; reniform brown, nearly round, rather large. Hind wings white, with pale yellow borders. Length of the body 5 lines; of the wings 12 lines.

a. North India.

20. XANTHIA RUFOFLAVA.

Luteo-flava, subtus alba; *abdomen supra testaceum*; *alæ anticæ apud marginem exteriori ferruginæ, lineis transversis 1a, 2a et 3a indistinctis fusciscentibus subarcuatis, 4a nigricante angulata, macula orbiculari obsoleta, reniformi pallidissime rufa subrotunda marginata*; *posticæ supra rufescentes, marginibus ciliisque canis.*

Luteous-yellow, white beneath. Abdomen testaceous above. Fore wings ferruginous along the exterior border; first, second and third transverse lines brownish, indistinct, slightly curved; fourth

blackish, more distinct and somewhat zigzag, bordering the ferruginous part; orbicular spot obsolete; reniform spot very pale red, nearly round, with a darker border. Hind wings reddish above, with hoary borders and ciliæ. *Male*.—Antennæ ciliated. Abdomen extending for half its length beyond the hind wings. *Female*.—Abdomen extending very little beyond the hind wings. Length of the body $5\frac{1}{2}$ —7 lines; of the wings 14 lines.

a. North India. Presented by E. Doubleday, Esq.

b. North India. From Mr. Stevens' collection.

Country unknown.

21. XANTHIA CARNEAGO.

Sordide carnea; thorax cristatus; antennæ basi albæ; alæ anticæ lineis medianis distinctis duplicatis sublunulatis nigricantibus, submarginali fere obsoleta, macula costali subapicali nigricante, maculis indistinctis, reniformi nigro conspurcata; posticæ albido-cinereæ, nigricante carneoque tinctæ.

Xanthia carneago, Guen. Noct. i. 397, 654.

22. XANTHIA INDIRECTA.

Rufo-fulva, subtus albida; abdomen supra pallide cinereum; alæ albide; anticæ rufo-fulvo conspersæ, lineis quatuor transversis distinctis, 1a, 2a et 3a subundulatis, 4a recta apud costam angulata, linea exteriori indistincta undulata lunulisque marginalibus; posticæ linea exteriori transversa.

Allied to *X. citrigo*. Reddish tawny, whitish beneath. Abdomen pale cinereous above. Wings whitish. Fore wings thickly sprinkled with reddish tawny, and with the four lines distinct, and of the same hue; first, second and third lines slightly undulating; third traversing the reniform spot; fourth straight till it approaches the costa, where it is abruptly angular; an exterior indistinct undulating line, and a row of marginal lunules, each of which is most distinct in the middle. Hind wings with an exterior transverse line. Length of the body 6 lines; of the wings 15 lines.

a. ——— ? From Mr. Milne's collection.

Genus 17. XESTIA.

Corpus vix robustum. Proboscis sat longa. Palpi pilosi, ascendentes, sat longi; articulus 2us 3o cylindrico quadruplo longior. Antennæ corporis dimidio multo longiores. Abdomen alas posticas vix superans. Pedes validi, longiusculi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice acuminatæ, margine exteriori subconvexo mediocriter obliquo. *Mas.*—Antennæ subpectinatæ. *Fæm.*—Antennæ subciliatæ.

Hiptelia, Guen. *Noct.* i. 399.

Xestia, Hübn. *Exot. Schmett.* 232.

Xanthia, p., Ochs.; Treit.; Dup.; Boisd.; Herr.-Schæff.; Guen. *Ann. Soc. Ent.*

Body hardly stout. Proboscis somewhat long. Palpi pilose, ascending, rather long; third joint cylindrical, about one-fourth of the length of the second. Antennæ much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs stout, rather long; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight along the costa; tips acute; hind border slightly convex, moderately oblique. *Male.*—Antennæ slightly pectinated. *Female.*—Antennæ slightly ciliated.

Europe.

1. XESTIA OCHREAGO.

Testacea; alæ anticæ lineis transversis undulatis maculisque fuscis, reniformi nigro notata; posticæ cinerascens, marginibus testaceis.

Noctua ochreago, Hübn. *Samml. Eur. Schmett. Noct.* pl. 92, f. 431.

Xanthia ochreago, Dup. *Hist. Nat. Lép. Fr.* vii. 284, pl. 117, f. 8.

Xanthia rubecula, Treit. *Schmett. Eur.* v. 353, 7; *Suppl.* 103. Boisd. *Ind. Méth.* 145, 1171. Guen. *Ann. Soc. Ent. Fr.* vi. 241. Herr.-Schæff. *Schmett. Eur.* ii. 70, pl. 85, f. 437, 438.

Hiptelia ochreago, Guen. *Noct.* i. 400, 659.

Noctua rubecula, Frey. *Neu. Beit. Schmett.* pl. 389.

Noctua (Xanthia) rubecula, Meig. *Syst. Besch.* iii. 158, 141, pl. 107, f. 9.

Xestia Ochrojois, Hübn. *Verz. Schmett.* 233, 2333.

South France. Italy.

a, b. Europe. From M. Becker's collection.

2. XESTIA MINIAGO.

Rufescente-ochracea; alæ anticæ strigis ambabus non dentatis lineaque undulata pallidioribus, maculis fusco repletis, orbiculari obliqua, punctis nigris venarum pone strigam posteriorem; posticæ albidæ.

Xanthia miniago, Frey. *Neu. Beit. Schmett.* iv. pl. 304. *Boisd. Ind. Méth.* 145, 1172. *Guen. Ann. Soc. Ent. Fr.* vi. 242.

Herr.-Schæff. Schmett. Eur. ii. 201, 62, pl. 23, f. 113.

Hiptelia miniago, *Guen. Noct.* i. 401, 660.

South Russia.

North America.

3. XESTIA CHLOROPHA.

Fœm. Cervina; abdomen canum; alæ anticæ linea transversa subbasali, strigis discalibus fasciæque gemina subapicali fasciæ; posticæ fasciis duabus fuscis, basi canis.

Xestia chloropha (*Noctua genuina*, *Gloia ferruginea*), *Hüb. Samml. Exot. Schmett.* i. 16, 37, f. 73, 74; *Verz. Schmett.* 233, 2334.

Georgia, Florida.

Genus 18. CIRRÆDIA.

Corpus vix robustum. Caput conicum. Proboscis breviuscula. Palpi porrecti, caput vix superantes; articulus 3us minimus. Antennæ corporis dimidio longiores. Abdomen alas posticas paullo superans. Pedes mediocriter validi; tibiæ posticæ calcaribus vix longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice acuminatæ vix falcatæ, margine exteriori subundulato mediocriter obliquo. *Mas.*—Antennæ subsetosæ.

Cirrædia, *Guen. Ann. Soc. Ent. Fr.* viii. 242, 489; *Noct.* i. 401; *Dup.*

Xanthia, p., *Treits.*; *Boisd.*; *Steph.*; *Curt.*

Atethmia, p., *Hüb. Verz. Schmett.* 238.

Body hardly stout. Head conical. Proboscis rather short. Palpi porrect, hardly extending beyond the head; third joint very minute, much less than one-fourth of the length of the second. Antennæ more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs moderately stout;

spurs of the hind tibiæ hardly long. Wings moderately broad. Fore wings straight in front, acuminate and very slightly falcate at the tips; exterior border slightly undulating, moderately oblique. *Male*.—Antennæ very slightly setose.

Europe.

1. CIRRÆDIA XERAMPELINA.

Pallide lutea; alæ anticæ fascia media lata rufescente antice dilatata et lutea maculamque cervinam includente, margine exteriore rufescente; posticæ albidæ, margine rufescente.

Noctua xerampelina, Hübn. Samml. Eur. Schmett. Noct. pl. 90, f. 421. Dup. Hist. Nat. Léop. Fr. iv. 249, pl. 116, f. 1. Frey. Neu. Beit. Schmett. ii. pl. 149.

Noctua centrargo, Haw. Lep. Brit. 219.

Xanthia xerampelina, Treit. Schmett. Eur. v. 354, 8; Suppl. 106. Boisd. Ind. Méth. 146, 1178.

Cirrædia xerampelina, Guen. Ann. Soc. Ent. Fr. vi. 242; Noct. i. 402, 662. Herr.-Schaff. Schmett. Eur. ii. 225, 135. Stainton, Man. 254.

Xanthia centrargo, Curt. Brit. Ent. 84. Steph. Ill. Brit. Ent. Haust. iii. 65.

Noctua (Xanthia) xerampelina, Meig. Syst. Besch. iii. 159, 142, pl. 107, f. 7.

Atethmia xerampelina, Hübn. Verz. Schmett. 238, 2366.

a—c. England. From Mr. Stephens' collection.

d. England.

e. Europe. From M. Becker's collection.

2. CIRRÆDIA AMBUSTA.

Fusco-cervina; abdomen testaceum; alæ anticæ lineis duabus undulatis unaque e lunulis exterioribus transversis venisque exterioribus testaceis, reniformi magna, testaceo marginata; posticæ testaceæ, margine cervino.

———, Engr. Pap. d'Eur. 500, a—c.

Noctua ambusta, Wien. Verz. T. 16. Fabr. Ent. Syst. iii. Bork. Eur. Schmett. iv. 276. Hübn. Samml. Eur. Schmett. Noct. f. 215. Dup. Hist. Nat. Léop. Fr. iv. 323, pl. 120. Frey. Neu. Beit. Schmett. ii. pl. 189.

Noctua xerampelina, Esp. Schmett. pl. 183, f. 5.

- Xanthia ambusta*, *Treit. Schmett. Eur.* i. 78. *Boisd. Ind. Méth.* 146, 1177.
Cirrœdia ambusta, *Guen. Noct.* i. 403, 663. *Herr.-Schæff. Schmett. Eur.* ii. 225, 136.
Atethmia ambusta, *Hüb. Verz. Schmett.* 238, 2367.
a—d. Europe. From M. Becker's collection.

North America.

3. CIRRÆDIA PAMPINA.

Rufo-lutea; *alæ anticæ* margine *exteriore* *dentata angulato*, *lineis transversis ciliisque rufis*, *interiore et mediana antice remotis*, *exteriore diffusa angulosa*, *maculis magnis rufescentibus flavo marginatis*, *orbiculari subquadrata*; *posticæ rufescentes*.

Cirrœdia pampina, *Guen. Noct.* i. 402, 661.

- a.* New York. Presented by E. Doubleday, Esq.
b, c. New York. From Mr. Milne's collection.
d, e. Nova Scotia. From Lieut. Redman's collection.

Genus 19. MESOGONA.

Corpus robustum. Caput conicum. Proboscis mediocriter longa. Palpi validi, porrecti, caput non superantes; articulus 3us conicus, 2i quadrante non longior. Antennæ simplices, corporis dimidio valde longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus vix longis. Alæ latiusculæ; anticæ apud costam subrectæ, apice rectangulatæ, margine *exteriore* antice vix obliquo postice rotundato.

Mesogona, *Boisd. Ind. Méth.* 144; *Dup.*; *Guen. Noct.* i. 403.

Mythimna, *Hüb. Verz. Schmett.* 238.

Cosmia, p., *Treit.*

Orthosia, p., *Guen.*

Mithymna, p., *Treit.*; *Boisd.*

Body stout. Head conical. Proboscis moderately long. Palpi stout, porrect, not extending beyond the head; third joint conical, not more than one-fourth of the length of the second. Antennæ simple, much more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with four hardly long spurs. Wings rather broad. Fore wings almost straight in front, rectangular at the tips; exterior border hardly oblique in front, rounded hindward.

Europe.

1. MESOGONA ACETOSELLE.

Pallide cervina; alæ anticæ nigro conspersæ, lineis duabus transversis medianis subarcuatis testaceis cinereo marginatis, orbiculari et reniformi testaceo cinereoque marginatis, illa subrotunda; posticæ linea media cinerea testaceo marginata.

- Phalæna-Noctua Acetosellæ, *Gmel. ed. Syst. Nat. i. 5, 2571. 1158.*
 Noctua Acetosellæ, *Wien. Verz. 84, 1. Fabr. Mant. Ins. ii. 177, 272; Ent. Syst. iii. 2, 112, 338. Bork. Eur. Schmett. iv. 690, 302. Hübn. Samml. Eur. Schmett. Noct. f. 220.*
 Mythimna Acetosellæ, *Hübn. Verz. Schmett. 239, 2370. Treit. Schmett. Eur. v. 179, 2. Frey. Neu. Beit. Schmett. iii. pl. 202. Dup. Hist. Nat. Léop. d'Eur. vii. 128, pl. 109, f. 2. Boisd. Ind. Méth. 144, 1163.*
 Mesogona Acetosellæ, *Guen. Ann. Soc. Ent. Fr. Noct. i. 405, 666; Noct. ii. 405, 666.*
 Noctua (Cosmia) Acetosellæ, *Meig. Syst. Besch. iii. 149, 121, pl. 105, f. 9.*

a—d. Europe. From M. Becker's collection.

2. MESOGONA OXALINA.

Ferrugineo-fusca; abdomen ferrugineo-cinerascens; alæ anticæ cinereo-fuscæ, lineis duabus obliquis transversis postice approximatis annulisque duobus intermediis pallidioribus, lineis duabus exterioribus e lunulis nigricantibus; posticæ canescentes, fascia submarginali cinerea.

- Noctua oxalina, *Hübn. Eur. Schmett. Noct. pl. 45, f. 219. Dup. Hist. Nat. Léop. Fr. vii. 130, pl. 109, f. 3. Frey. Beit. Ges. Schm. pl. 112.*
 Mythimna oxalina, *Hübn. Verz. Schmett. 239, 2369. Treit. Schmett. Eur. v. 178, 1; Suppl. x. 105. Boisd. Ind. Méth. 144, 1164.*
 Mesogona oxalina, *Guen. Ann. Soc. Ent. Fr. vi. 241; Noct. i. 405, 667.*
 Noctua (Cosmia) oxalina, *Meig. Syst. Besch. iii. 148, 120, pl. 105, f. 8.*

a—c. Europe. From M. Becker's collection.

North America.

3. MESOGONA CULEA.

Pallidissime cervina ; abdomen canescens ; alæ anticæ lineis duabus transversis obliquis fuscis pallido marginatis, maculis indistinctis, reniformi nigro signata ; posticæ cinerascens linea obscuriore.

Mesogona culea, *Guen. Noct. i.* 404, 665.

a. East Florida. Presented by E. Doubleday, Esq.

Mexico.

4. MESOGONA MADIDA.

Ochracea ; palpi rufescentes, apice ochracei ; abdomen fulvo-rufescens ; alæ anticæ lineis duabus medianis pallidioribus indistinctis remotis, submarginali maculisque fere obsoletis ; posticæ semihyalinæ, rufescente tinctæ.

Mesogona madida, *Guen. Noct. i.* 404, 664.

Mexico.

Genus 20. CAREA.

Mas. Corpus robustum. Caput breve. Proboscis brevis. Palpi ascendentes, arcuati ; articulus 3us minimus. Antennæ simplices, setaceæ, corporis dimidio non longiores. Abdomen alas posticas paullo superans, apice compressum attenuatum et fasciculatum. Pedes robusti ; tibiæ posticæ calcaribus longis. Alæ latiusculæ ; anticæ apud costam rectæ ; apice rectangulatæ, margine exteriori apud medium fere angulato, antice non obliquo, postice rotundato.

Male. Body stout. Head short. Proboscis short. Palpi ascending, curved, not reaching the vertex ; third joint very small, not more than one-sixth of the length of the second. Antennæ simple, setaceous, not more than half the length of the body. Abdomen extending a little beyond the hind wings, compressed, attenuated and tufted at the tip. Legs very stout ; hind tibiæ with four long spurs. Wings rather broad. Fore wings straight in front, rectangular at the tips, not oblique along the fore half of the exterior border, which is almost angular in the middle ; hind part rounded ; inferior veins much as usual.

1. CAREA VARIPES.

Mas. *Miniata*; antennæ fuscæ; pectus ex parte album; abdomen ferrugineo-rufum, apice nigricans; pedes subtus albi, tibiis tarsisque supra fuscis, alæ anticæ fascia subarcuata angusta subpurpurascente fusco marginata; posticæ pallidiores, margine interiore testaceo subtus albido.

Male. Red-lead colour. Antennæ brown. Pectus partly white. Abdomen ferruginous-red, blackish at the tip. Legs white beneath; tibiæ and tarsi brown above. Fore wings with a slender lilac brown-bordered very slightly curved band, which extends from four-fifths of the length of the costa to the interior angle. Hind wings paler than the fore wings, testaceous above and whitish beneath along the interior border. Length of the body 8 lines; of the wings 18 lines.

Malacca. In Mr. Wallace's collection.

Genus 21. EPISPARIS.

Mas et fœm. Corpus sat validum. Proboscis mediocriter longa. Palpi oblique ascendentes; articulus 3us minimus. Antennæ subpectinatæ, ramis dense ciliatis. Abdomen alas posticas vix superans. Pedes validi; tibiæ posticæ calcaribus quatuor longiusculis. Alæ longiusculæ et latiusculæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori integro mediocriter obliquo apud medium subangulato; posticæ margine exteriori apud medium distincte angulato. **Mas.**—Abdomen sexualibus maximis.

Slightly resembling some of the *Saturniida*.

Body moderately stout. Proboscis moderately long. Palpi ascending obliquely; third joint very small, not more than one-sixth of the length of the second. Antennæ slightly pectinated in both sexes; the branches thickly ciliated. Abdomen hardly extending beyond the hind wings. Legs stout; hind tibiæ with four rather long spurs. Wings rather long and broad. Fore wings straight in front, angular at the tips, exterior border entire, moderately oblique, slightly angular in the middle. Hind wings with the exterior border distinctly angular in the middle. **Male.**—Abdomen with very large apical appendages; lateral valves pilose.

1. EPISPARIS PENETRATA.

Mas et fœm. *Ochracea, subtus alba; antennæ testaceæ; pedes albi, femoribus tibiisque anticis supra rufis; alæ anticæ litoris costalibus albis, lineis transversis fuscis purpurascente marginatis, basali distincta, interiore dislocata, mediana valde flexa, exteriori recta, reniformi argenteo conspersa fusco marginata; posticæ apud costam purpureo-albidæ, maculis duabus discalibus ochraceis, linea mediana distincta subangulata.*

Male and female. Orange, white beneath. Antennæ testaceous. Abdomen more dull than the thorax. Legs white; fore femora and fore tibiæ red above. Fore wings with some white marks along the costa; transverse lines brown and accompanied by a purplish tinge; basal line distinct; interior one dislocated; median one much bent; exterior one straight; claviform and orbicular spots obsolete; reniform forming a silver-spangled brown-bordered spot, which is much more excavated in the male than in the female. Hind wings purplish, whitish along the costa, with two orange discal spots; median line distinct, forming a nearly right angle in the middle; under side whitish, with a brown discal dot and a fawn-coloured border; median line distinct, zigzag. Length of the body 6—8 lines; of the wings 16—18 lines.

a, b. Africa. Presented by E. Doubleday, Esq.

Genus 22. EPITAUSA.

Mas. Corpus sat robustum. Proboscis mediocriter longa. Palpi validi, longiusculi, oblique ascendentes; articulus 2us 3o cylindrico quadruplo longior. Antennæ serratæ, ciliatæ, corporis dimidio vix longiores. Abdomen alas posticas superans. Pedes validi; tibiæ posteriores dense fasciculatæ, posticæ calcaribus quatuor longis. Alæ longiusculæ, mediocriter latæ; anticæ apud costam rectæ, apice angulatæ, subfalcatæ, margine exteriori integro valde obliquo.

Male. Body moderately stout. Proboscis moderately long. Palpi stout, rather long, obliquely ascending; third joint cylindrical, not more than one-fourth of the length of the second. Antennæ serrated, ciliated, hardly more than half the length of the body. Abdomen extending rather beyond the hind wings, tufted on each side towards the tip. Legs stout; posterior tibiæ thickly tufted;

hind tibiæ with four long spurs. Wings rather long, moderately broad. Fore wings straight in front, angular and almost falcate at the tips, entire and very oblique along the exterior border; fourth inferior vein very remote from the others.

This genus in some characters approaches the second group of *Noctuities*, and has a slight resemblance to the *Saturniidae*.

1. EPITAUSA LÆTABILIS.

Mas. *Læte flava, subtus rosea; caput, thorax anticus et pedes antici obscure rufa; abdomen rufum, subtus basi pallide testaceum pilosissimum; pedes rufi, ex parte flavi, calcaribus genubusque posticis albo guttatis; alæ fusco subconspersæ, rufo unilineatæ; anticæ lineis duabus indistinctis angulosis rufescentibus interioribus, extus rufescentibus linea rufa guttisque duabus aut tribus albidis, orbiculari et reniformi e annulis duobus rufescentibus; posticæ guttis duabus aut tribus exterioribus nigris.*

Male. Bright yellow, mostly rosy red beneath. Head, fore part of the thorax and fore legs darker red. Abdomen red; under side darker, but pale testaceous and very pilose towards the base. Legs red, partly yellow; a white dot at the base of each spur and on each hind knee. Wings minutely and thinly speckled with brown, traversed by a straight red line, which extends from near the tips of the fore wings to the middle of the interior border of the hind wings. Fore wings with two indistinct angulose reddish interior lines; space beyond the straight line reddish, and including an indistinct angulose red line, which is marked by two or three whitish dots; a reddish costal subapical patch, behind which there is a white mark on the ciliæ; orbicular and reniform spots forming two reddish ringlets. Hind wings with two or three black dots between the straight line and the exterior border. Wings beneath brighter yellow and red, with some white points along the costa near the tip, with a lilac apical patch, and with a lilac line accompanying the straight one. Length of the body 8 lines; of the wings 18 lines.

a. St. Domingo. From Mr. Tweedie's collection.

Genus 23. AMARNA.

Corpus sat robustum. Proboscis mediocriter longa. Palpi validi, ascendentes; articulus 2us 3o lanceolato plus quadruplo longior. Abdomen alas posticas triente fere superans. Pedes validi;

tibiæ posticæ calcaribus quatuor longissimis. Alæ mediocriter latæ, breviusculæ; anticæ apud costam rectæ, apice rectangulatæ; margine exteriore apud medium subangulato postice mediocriter obliquo.

Body rather stout. Proboscis moderately long. Palpi stout, ascending to the vertex; third joint lanceolate, rather less than one-fourth of the length of the second. Abdomen extending near one-third of its length beyond the hind wings. Legs stout; hind tibiæ with four very long spurs. Wings moderately broad, rather short. Fore wings straight in front, rectangular at the tips, moderately oblique along the hind part of the exterior border, which is almost angular in the middle; fourth inferior vein very remote from the other three, which are contiguous.

1. AMAERNA DISCURSA.

Ferrugineo-rufa; abdomen pallidum; alæ anticæ basi apud costam incrassatæ subdilatatæ, apud marginem interiorem pilosissimæ, linea exteriore fusca undulata albido marginata, macula orbiculari e gutta alba, reniformi magna fusca albido marginata; posticæ fuscæ, apud marginem exteriorem pallide cinereæ.

Ferruginous-red. Abdomen paler than the thorax. Fore wings thickened and slightly dilated at the base of the costa, very pilose towards the interior border; lines obsolete, except the exterior one, which is brown, whitish-bordered, and very undulating; claviform spot obsolete; orbicular represented by a white dot; reniform large, brown, whitish-bordered, of the usual shape. Hind wings brownish, pale cinereous along the exterior border. Length of the body 7 lines; of the wings 15 lines.

a. ——— ?

Genus 24. DABARITA.

Corpus vix robustum. Palpi breves, subascendentes, non crassi; articulus 3us brevissimus. Proboscis mediocriter longa. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas paullo superans. Pedes sat validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice acuminatæ, margine exteriore sat obliquo valde undulato. *Mas*,—Antennæ pubescentes.

Body hardly robust. Palpi short, not stout, slightly ascending; third joint very short. Proboscis moderately long. Antennæ simple, much more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, acuminate at the tips; exterior border rather oblique, deeply undulating. *Male*.—Antennæ pubescent.

1. DABARITA SUBTILIS.

Mas et fœm. *Lateritio-rufa; pectus album; abdomen pallidum, lateribus albidis; pedes albi, anteriores supra rufi, alæ anticæ linea interiore recta obliqua transversa fusca, gutta discali nigra lineaque duplicata exterior subarcuata vix obliqua fusca, maculis subobsoletis; posticæ albæ, apud margines rufescentes.* Var.—*Alæ anticæ læte rufæ, lineis subobsoletis.*

Brick-red colour. Pectus white. Abdomen much paler than the thorax, whitish along each side. Legs white; anterior legs red above. Fore wings with a straight oblique transverse brown line before the middle, with a black discal dot, and with a double exterior very slightly curved, hardly oblique, transverse brown line; spots almost obsolete. Hind wings white, with a red tinge about their borders. Length of the body 6 lines; of the wings 14 lines. *Var.*—Fore wings brighter red; the lines almost obsolete.

a, b. North India. From Mr. Stevens' collection.

c. ———? From Mr. Milne's collection.

Fam. 7. COSMIDÆ.

Corpus sat gracile aut sat validum. Proboscis sat longa, raro brevis. Palpi ascendentes; articulus 3us sæpissime longiusculus, cylindricus. Antennæ sæpissime simplices. Pedes postici calcariibus longis. Alæ anticæ coloribus variis, sæpe acutæ, margine exterior subobliquo nonnunquam subundulato; lineis medianis non dentatis trapezium fingentibus.

Orthosides, p., et *Noctuo-Bombycides*, p., *Boisd.*; *Dup.*

Xanthidi, p., *Steph. Cat. Brit. Lep.* 122; ed. 2, 110.

Cosmidæ, *Guen. Noct.* ii. 1.

Body rather slender or moderately stout. Proboscis elongate, rarely short. Palpi ascending; third joint generally cylindrical and rather long. Antennæ simple, or nearly so. Hind tibiæ with long

spurs. Fore wings moderately broad, various as to colour, often acute at the tips; exterior border slightly oblique, occasionally slightly undulating.

A. Alæ anticæ apice acutæ.

A. Palpi longiusculi, ascendentes. - 1. IPIMORPHA, *Hübner*.

B. Palpi breviores, subascendentes.

A. Alæ anticæ fasciis obliquis, non parallelis.

4. COSMIA, *Ochs.*

B. Alæ anticæ fasciis rectis, parallelis. 5. ATETHMIA, *Hübner*.

B. Alæ anticæ apice subacuminatæ, aut subrotundatæ.

A. Palpi sat graciles. - - - - 2. ENARGIA, *Hübner*.

B. Palpi validi. - - - - 3. CLEOCERIS, *Boisd.*

Genus 1. IPIMORPHA.

Corpus vix robustum. Proboscis mediocriter longa. Palpi pilosi, longiusculi, ascendentes, sat graciles; articulus 2us 3o longiconico triplo longior. Antennæ graciles, corporis dimidio multo longiores. Abdomen alas posticas vix superans. Pedes sat graciles; tibiæ posticæ calcaribus longis. Alæ mediocriter latæ; anticæ acutæ, apud costam vix convexæ, margine exteriori per paullo undulato et obliquo. *Mas.*—Antennæ vix ciliatæ.

Tethea, *Ochs.*; *Steph.*; *Guen. Ann. Soc. Ent. Fr.* vi. 307; *Noct.* ii. 2.

Cymatophora, p., *Treit*; *Boisd.*

Ipimorpha, *Hübner*. *Verz Schm.* 238.

Kymatophora, *Sodoff*.

Plastenis, *Boisd. Ind. Méth.* 93.

Body hardly stout. Proboscis moderately long. Palpi pilose, ascending, rather long and slender; third joint elongate-conical, about one-third of the length of the second. Antennæ slender, simple, much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs rather slender; hind tibiæ with four long spurs. Wings moderately broad. Fore wings hardly convex in front, acute at the tips, very slightly undulating and oblique along the exterior border. *Male.*—Antennæ very minutely ciliated.

1. IPIMORPHA SUBTUSA.

Glaucescence-cervina ; *alæ anticæ lineis tribus transversis subrectis unaque submarginali undulata testaceis, orbiculari et reniformi maculaque postica cervinis magnis distinctis testaceo marginatis* ; *posticæ ciliis pallidis.*

———, *Engr. Pap. d'Eur.* 402, a—c.

Noctua subtusa, *Wien. Verz.* 88, 17. *Fabr. Mant. Ins.* ii. 152, 130 ; *Ent. Syst.* iii. 2, 62, 173. *Bork. Eur. Schmett.* iv. 650, 275. *Hübner. Eur. Schmett. Noct.* pl. 44, f. 213. *Haw. Lep. Brit.* 267. *Dup. Hist. Nat. Léop. Fr.* vi. 148, pl. 82, f. 4. *Frey. Beit.* i. pl. 10.

Cymatophora subtusa, *Treit. Schmett.* v. 82, 3.

Tethea subtusa, *Steph. Ill. Brit. Ent. Haust.* iii. 56. *Guen. Noct.* ii. 3, 668.

Plastenis subtusa, *Boisd. Ind. Méth.* 93, 705.

Phalæna-Noctua subtusa, *Gmel. ed. Syst. Nat.* i. 5, 2540, 1020.

Noctua (Cerastis) subtusa, *Meig. Syst. Besch.* iii. 155, 134, pl. 106, f. 9.

Ipimorpha subtusa, *Hübner. Verz. Schmett.* 238, 2365.

a—f. England. From Mr. Stephens' collection.

g—i. England.

j, k. Europe. From M. Becker's collection.

2. IPIMORPHA RETUSA.

Glaucescence-fusca ; *abdomen cinereo-cervinum* ; *alæ anticæ lineis tribus transversis subrectis unaque submarginali undulata canescentibus, orbiculari et reniformi magnis canescente marginatis* ; *posticæ subpallidiores, ciliis testaceis.*

———, *Engr. Pap. d'Eur.* 402, d.

Phalæna-Noctua retusa, *Linn. Faun. Suec.* 1218. *Gmel. ed. Syst. Nat.* i. 5, 2544, 193.

Noctua retusa, *Wien. Verz.* 88, 18. *Fabr. Mant. Ins.* ii. 153, 131 ; *Ent. Syst.* iii. 2, 62, 174. *Esp. Schmett.* iv. pl. 178, f. 1. *Sepp. Ins.* iii. pl. 39. *Bork. Eur. Schmett.* iv. 648, 274. *Haw. Lep. Brit.* 269. *Hübner. Schmett. Eur. Noct.* pl. 44, f. 214. *Dup. Hist. Nat. Léop. Fr.* vi. 145, pl. 82, f. 3. *Frey. Beit.* iii. 143.

Cosmia chrysoglossa, *Treit. Phil.* ii. 5, pl. 1.

Noctua vetula, *Hübner. Beitr.* pl. 2, H.

Cymatophora retusa, *Treit. Schmett.* v. 80, 2.

Noctua gracilis, *Haw. Lep. Brit.* 268.

Plastemis retusa, *Boisd. Ind. Méth.* 93, 706.

Tethea gracilis, *Steph. Ill. Brit. Ent. Haust.* iii. 57.

Tethea retusa, *Guen. Noct.* ii. 3, 669.

Noctua (*Cerastis*) *retusa*, *Meig. Syst. Besch.* iii. 155, 133, pl. 106, f. 8.

Ipimorpha retusa, *Hübner Verz. Schmett.* 238, 2364.

a—f. England. From Mr. Stephens' collection,

g—j. England.

Genus 2. ENARGIA.

Corpus sat gracile. Proboscis mediocriter longa. Palpi pilosi, ascendentes, sat graciles; articulus 2us 3o triplo aut quadruplo longior; 3us lanceolatus aut cylindricus. Antennæ corporis dimidio multo longiores. Abdomen alas posticas plus minusve superans. Pedes sat graciles; tibiæ posticæ calcaribus longis. Alæ mediocriter latæ; anticæ apud costam subrectæ, apice subacuminatæ, margine exteriori perparum obliquo et convexo. *Mas.*—Antennæ subserratæ.

Enargia, *Hübner Verz. Schmett.* 235.

Euperia, *Guen. Ind.* 242; *Noct.* ii. 4.

Cosmia, *p., Ochs.; Treits.; Boisd.*

Body rather slender. Proboscis moderately long. Palpi pilose, ascending, rather slender; third joint lanceolate or cylindrical, one-third or one-fourth of the length of the second. Antennæ much more than half the length of the body. Abdomen extending more or less beyond the hind wings. Legs rather slender; hind tibiæ with four long spurs. Wings moderately broad. Fore wings almost straight in front, very slightly oblique and convex along the exterior border; apical angle slightly rounded. *Male.*—Antennæ minutely serrated.

1. ENARGIA CONTUSA.

Ferrugineo-cervina; abdomen cinereum; alæ anticæ fasciis indistinctis obscurioribus pallido marginatis, orbiculari et reniformi pallido marginatis, hac apud medium arctata, illa parva; posticæ cinereo-fuscæ, ciliis pallidis.

Cosmia contusa, *Herr.-Schæff. Schmett. Eur.* ii. 223, 130, f. 517, 518.

Euperia contusa, *Guen. Noct.* ii. 5, 671.

Germany.

2. ENARGIA ABLUTA.

Albida; alæ anticæ lineis transversis indistinctis, macula apud reniformem fusca.

Noctua abluta, *Hübner. Eur. Schmett. Noct.* f. 351.

Cosmia abluta, *Treit. Schmett.* ii. 381. *Eversm. Herr.-Schæff. Schmett. Eur.* ii. 223, 128. *Boisd. Ind. Méth.* 143, 1159.

Euperia abluta, *Guen. Ind.* 242; *Noct.* ii. 5. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 327, pl. 30.

Austria. Hungary. South Russia.

a, b. Europe. From M. Becker's collection.

3. ENARGIA IMBUTA.

Luteo-corticina aut luteo-fulva; alæ anticæ area media lateritia, maculis pallidis, reniformi postice infusata, striga extra basali semicirculari; posticæ lutescentes.

Cosmia imbuta, *Boisd. Ind. Méth.* 143, 1160. *Herr.-Schæff. Schmett. Eur.* ii. 223, 127; ii. pl. 24, f. 115, 116.

Euperia imbuta, *Guen. Noct.* ii. 5, 673.

Hungary.

4. ENARGIA FULVAGO.

Flavescens; abdomen testaceum; alæ anticæ lituris variis guttis submarginalibus fasciæque diffusa cervinis; posticæ albæ.

———, *Engr. Pap. d' Eur.* 526, b.

Phalæna-Noctua fulvago, *Linn. Faun. Suec.* 1173. *Clerck, Icon.* pl. 6, f. 15. *Gmel. ed. Syst. Nat.* i. 5, 2578, 190.

Noctua fulvago, *Wien. Verz.* 86, 1. *Fabr. Mant. Ins.* ii. 159, 162; *Ent. Syst.* iii. 2, 73, 208. *Hübner. Eur. Schmett. Noct.* pl. 41, f. 198. *Dup. Hist. Nat. Lép. Fr.* vii. 125, pl. 109, f. 1.

Cosmia fulvago, *Treit. Schmett.* v. 380. *Boisd. Ind. Méth.* 143, 1161. *Steph. Ill. Brit. Ent. Haust.* iii. 62. *Herr.-Schæff. Schmett. Eur.* ii. 125, 223, 126.

Noctua paleacea, *Esp. Schmett.* iv. pl. 122, f. 3, 4.

Noctua gilvago, *Bork. Schmett.* iv. 683, 295.

Noctua angulago, *Haw. Lep. Brit.* 238.

Enargia palliacea, *Hübner. Verz. Schmett.* 235, 2349.

Noctua (Cosmia) fulvago, *Meig. Syst. Besch.* iii. 149, 122, pl. 106, f. 13.

Euperia fulvago, *Guen. Noct.* ii. 6, 674. *Steph. Cat. Brit. Lep.* 112.

a—h. England. From Mr. Stephens' collection.

i—k. England.

l, m. Europe. From M. Becker's collection.

5. ENARGIA? CALTHEAGO.

Luteo-lateritia; *alæ anticæ strigis duabus transversis undulato serratis obscurioribus, macula reniformi pallidiore postice infuscata alboque limbata*; *postice pallide luteæ.*

Cosmia caltheago, *Boisd. Ind. Méth.* 143, 1162.

South Russia.

South America.

6. ENARGIA MELANOSPILA.

Sordide straminea; *palpi gracillimi, longiusculi, articulo 3o lanceolato*; *alæ anticæ fusco conspersæ, lineis transversis plus minusve conspicuis, reniformis margine obscuriore, linea submarginali magis distincta, macula postica nigra*; *posticæ cinereo-stramineæ.*

Euperia melanospila, *Guen. Noct.* ii. 4, 670.

Brazil.

Genus 3. CLEOCERIS.

Corpus mediocriter robustum. Proboscis vix longa. Palpi validi, pilosi, ascendentes; articulus 3us cylindricus, 2i trientis vix brevior. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas sat superans. Pedes validi; tibiæ posticæ calcaribus sat longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriori subobliquo vix convexo. *Fæm.*—Abdomen apice attenuatum.

Cymatophora, p., *Ochs.*; *Steph.*

Cosmia, p., *Treit.*

Cleoceris, *Boisd.*

Tethea, p., *Dup.*

Ochria, p., *Hüb. Verz. Schmett.* 233.

Dicycla, *Guen. Noct.* ii. 7.

Eugramma, *Steph. Cat. Brit. Lep.* 110.

Body moderately stout. Proboscis moderately long. Palpi stout, pilose, ascending; third joint cylindrical, nearly one-third of the length of the second. Antennæ simple, much more than half the length of the body. Abdomen extending somewhat beyond the hind wings. Legs stout; hind tibiæ with four moderately long spurs. Wings moderately broad. Fore wings straight in front, somewhat rounded at the tips, hardly convex and slightly oblique along the exterior border. *Female*.—Abdomen attenuated and tubiform at the tip.

1. CLEOCERIS Oo.

Citrino-albida, subtus alba; alæ anticæ lineis transversis fasciisque ocellisque tribus cervinis; posticæ albida.

———, *Roës. Ins.* i. pl. 63, f. 1—4. *Wilk. Pap.* 6, pl. 1, a, 11. *Engr. Pap. d'Eur.* 528, d.
Phalæna-Bombyx Oo, *Linn. Faun. Suec.* 1139. *Gmel. ed. Syst. Nat.* i. 5, 2438, 81.

Noctua Oo, *Wien. Verz.* 87, 1. *Fabr. Mant. Ins.* ii. 164, 194; *Ent. Syst.* iii. 2, 84, 247. *Bork. Schmett.* iv. 661, 283. *Dup. Hist. Nat. Lép. Fr.* vi. 174, pl. 84, f. 2, 3. *Frey. Beit.* ii. pl. 149.

Bombyx Oo, *Esp. Schmett.* iii. pl. 81, f. 2—5.

Noctua ferruginago, *Hüb. Eur. Schmett. Noct.* pl. 41, f. 195. *Haw. Lep. Brit.* 225.

Ochria Oo, *Hüb. Verz. Schmett.* 233, 2339.

Cymatophora Oo, *Treit. Schmett.* v. 84, 4. *Steph. Ill. Brit Ent. Haust.* iii. 59.

Noctua (Xanthia) Oo, *Meig. Handb.* 152, 12; *Syst. Besch.* iii. 157, 139, pl. 107, f. 1.

Cleoceris Oo, *Boisd. Ind. Méth.* 93. 704.

Dicycla Oo, *Guen. Noct.* ii. 7, 675.

a—k. England. From Mr. Stephens' collection.

l—o. England.

p, q. Europe. From M. Becker's collection.

r. Europe. From Mr. Milne's collection.

s. Europe.

2. CLEOCERIS? SUBFLAVA.

Alæ anticæ ochraceæ, fascia lata baseos, striga media fasciæque lata terminali fuscis; posticæ lutescentes.

Xanthia subflava, *Eversm. Bull. Soc. Imp. Nat. Mosc.* xxxi. 3, 219, 11.

Dicycla? *subflava*, *Guen. Noct.* ii. 8, 676.

Lower Volga District.

Genus 4. COSMIA.

Corpus sat robustum. Proboscis brevis. Palpi graciles, subascendentes; articulus 3us cylindricus, 2i trientis longior. Abdomen alas posticas non aut vix superans. Pedes mediocriter validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ acutæ, apud costam perparum convexæ, margine exteriori subobliquo vix undulato.

Cosmia, *Ochs.*; *Treit.*; *Boisd.*; *Steph.*; *Guen. Ann. Soc. Ent. Fr.* vi. 318; *Noct.* ii. 8.

Calymnia et *Eustegnia*, *Hübner. Verz. Schmett.* 235, 236.

Body moderately stout. Proboscis short. Palpi slender, slightly ascending; third joint cylindrical, more than one-third of the length of the second. Antennæ more than half the length of the body. Abdomen not or hardly extending beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings very slightly convex in front, acute at the tips, slightly oblique and hardly undulating along the exterior border.

1. COSMIA TRAPEZINA.

*Testacea aut lutescens; alæ anticæ lineis duabus transversis pal-
lidis, gutta apud maculam reniformem punctisque submargi-
nalibus nigricantibus; posticæ cinereæ, testaceo marginatæ.*

———, *Merian, Ins. Eur.* pl. 11. *Engr. Pap. d'Eur.* 546, a—g.

Phalæna-Noctua trapezina, *Linn. Faun. Suec.* 1157. *Gmel. ed. Syst. Nat.* i. 5, 2547, 99.

Noctua trapezina, *Wien. Verz.* 88, 13. *Fabr. Sp. Ins.* ii. 219, 57; *Mant. Ins.* ii. 146, 86; *Ent. Syst.* iii. 2, 44, 117. *Esp. Schmett.* iv. pl. 87, f. 2, 3. *Bork. Schmett. Eur.* iv. 642, 271. *Hübner. Eur. Schmett. Noct.* pl. 42, f. 200. *Haw. Lep. Brit.* 257. *Knock, Ins.* ii. pl. 3, f. 1—4. *Sulz. Ins.* pl. 36, f. 6. *Sepp, Ins.* iii. pl. 46.

Cosmia trapezina, *Treit. Schmett.* v. 383, 5. *Dup. Hist. Nat. Lép. Fr.* vii. 113, pl. 108, f. 1. *Steph. Ill. Brit. Ent. Haust.* iii. 62. *Boisd. Ind. Méth.* 143, 115, 8. *Herr.-Schæff. Schmett. Eur.* ii. 223, 129. *Guen. Noct.* ii. 9, 677.

Noctua (Cosmia) trapezina, *Meig. Handb.* 160, 59, pl. 13, f. 2; *Syst. Besch.* iii. 150, 123, pl. 106, f. 2.

Calymnia trapezina, *Hüb. Verz. Schmett.* 235, 2350.

a—x. England. From Mr. Stephens' collection.

y—cc. England.

dd—ff. Europe. From M. Becker's collection.

2. COSMIA PYRALINA.

Rubiginosa; abdomen cinereum; alæ anticæ fasciis undulatis nigricantibus, linea transversa exteriori plagaque costali subapicali albis; posticæ cinereæ, ciliis pallidis.

———, *Engr. Pap. d'Eur.* 545, a, b.

Noctua Pyralina, *Wien. Verz.* 88, 12. *Bork. Eur. Schmett.* iv. 641, 270. *Hüb. Eur. Schmett. Noct.* pl. 42, f. 203. *Kléem. Ins.* ii. pl. 7, f. 1—3. *Haw. Lep. Brit.* 259. *Frey. Beit.* ii. pl. 129.

Cosmia Pyralina, *Treit. Schmett.* v. 392; *Suppl.* x. 106. *Dup. Hist. Nat. Lép. Fr.* vii. pl. 108, f. 6. *Steph. Ill. Brit. Ent. Haust.* iii. 61. *Boisd. Ind. Méth.* 143, 1156. *Herr.-Schæff. Schmett. Eur.* ii. 224, 134. *Guen. Noct.* ii. 10, 679.

Noctua corusca, *Esp. Schmett.* iv. pl. 135, f. 4, 5. *Bork. Eur. Schmett.* iv. 640, 269.

Noctua (Cosmia) Pyralina, *Meig. Syst. Besch.* iii. 151, 126, pl. 106, f. 12.

Eustegnia Pyralina, *Hüb. Verz. Schmett.* 236, 2353.

a—i. England. From Mr. Stephens' collection.

j. England. From Mr. Carter's collection.

k. England.

l—o. Europe. From M. Becker's collection.

3. COSMIA DIFFINIS.

Ferrugineo-fulvenscens; alæ anticæ lineis transversis pallidioribus et obscurioribus, maculis duabus costalibus albis; posticæ nigro-cinereæ, ciliis pallidis.

———, *Harris, Ins. Angl.* pl. 5, f. 8. *Engr. Pap. d'Eur.* f. 543, a, b. *Geoff. Ins. Par.* ii. 164.

- Phalæna-Noctua diffinis*, *Linn. Syst. Nat.* 848, 146. *Gmel. ed. Syst. Nat.* i. 5, 2563, 146.
- Noctua diffinis*, *Wien. Verz.* 88, 10. *Fabr. Sp. Ins.* ii. 230, 105; *Mant. Ins.* ii. 165, 206; *Ent. Syst.* iii. 87, 257. *Esp. Schmett.* iv. pl. 134, f. 2. *Bork. Eur. Schmett.* iv. 633, 267. *Scrib. Beit.* pl. 12, f. 1, 2. *Hüb. Schmett. Eur. Noct.* pl. 42, f. 202. *Haw. Lep. Brit.* 260. *Frey. Beit.* ii. pl. 130.
- Noctua (Cosmia) diffinis*, *Meig. Handb.* 171, 60, pl. 13, f. 10. *Syst. Besch.* iii. 150, 124, pl. 106, f. 3.
- Cosmia diffinis*, *Treit. Schmett.* v. 386, 4. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 108, f. 4. *Steph. Ill. Brit. Ent. Haust.* iii. 60. *Boisd. Ind. Méth.* 143, 1154. *Guen. Noct.* ii. 10, 680. *Herr.-Schæff. Schmett. Eur.* ii. 224, 132.
- Eustegnia diffinis*, *Hüb. Verz. Schmett.* 236, 2352.
- a—j.* England. From Mr. Stevens' collection.
- k—m.* England.
- n—q.* Europe. From M. Becker's collection.
- r.* ———?

4. COSMIA AFFINIS.

Rufescens; abdomen nigro-cinereum, segmentis pallido marginatis; alæ anticæ lineis transversis pallidioribus, fasciis subobsoletis nigricantibus; posticæ nigricantes, basi cinereæ, ciliis testaceis.

- , *Albin, Ins.* pl. 31, f. 49. *Engr. Pap. d'Eur.* 544, a, c, d, g.
- Phalæna-Noctua affinis*, *Gmel. ed. Syst. Nat.* i. 5, 2563, 144.
- Noctua affinis*, *Wien. Verz.* 88, 11. *Fabr. Sp. Ins.* ii. 230, 106; *Mant. Ins.* ii. 165, 207; *Ent. Syst.* iii. 2, 87, 258. *Esp. Schmett.* iv. pl. 134, f. 1. *Bork. Schmett.* iv. 637, 268. *Hüb. Eur. Schmett. Noct.* pl. 42, f. 201. *Scriba, Beit.* ii. pl. 12, f. 6, 7. *Sepp. Ins.* iv. pl. 3. *Haw. Lep. Brit.* 258.
- Cosmia affinis*, *Treit. Schmett.* v. 389, 5. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 108, f. 5. *Steph. Ill. Brit. Ent. Haust.* iii. 61. *Boisd. Ind. Méth.* 143, 1155. *Guen. Noct.* ii. 11, 682. *Herr.-Schæff. Schmett. Eur.* ii. 224, 131.
- Noctua palliata*, *Fabr. Ent. Syst.* iii. 97.
- Noctua (Cosmia) affinis*, *Meig. Handb.* 171, 61; *Syst. Besch.* iii. 151, 125, pl. 106, f. 4.
- Calymnia affinis*, *Hüb. Verz. Schmett.* 235, 2351.
- a—o.* England. From Mr. Stephens' collection.
- p—w.* England.
- x—cc.* Europe. From M. Becker's collection.

5. COSMIA CONFINIS.

Rubente-cinerea ; abdomen canescens ; alæ anticæ disco ex parte costaque testaceis, fasciis tribus undulatis antice dilatatis albis fasciæque undulata fusca ; posticæ canescentes, margine lato cinereo.

Cosmia confinis, Herr.-Schæff. Schmett. Eur. ii. 224, 133, pl. 87, f. 450. Guen. Noct. ii. 11, 681.

Turkey.

6. COSMIA ? VULPECULA.

Alæ anticæ rutilæ ; strigis ordinariis obscurioribus, obsoletis, maculisque ordinariis rutilo-lutescentibus ; alæ posticæ sordide lutescentes subconcolores ; subtus omnes rutilo-lutescentes ; strigis duabus externis obsoletis, ciliis concoloribus.

Cosmia vulpecula, Eversm. Bull. Soc. Imp. Nat. Mosc. 1852, 1, 150, 1.

South Ural.

North America.

7. COSMIA ORINA.

Mas. Carneocinerea ; abdomen gracile, apice fasciculatum ; alæ anticæ nigro conspersæ, margine exteriori vix obliquo, venis albo squamosis, lineis medianis angustis albis, maculis nigro conspersis albo marginatis ; posticæ albidæ, apud marginem cinerascens.

Cosmia orina, Guen. Noct. i. 10, 678.

North America.

Asia

8. COSMIA ? BOMBYCINA.

Fulva, roseo induta ; alæ anticæ striga externa obsoleta, punctis duobus in disco margineque anteriore fulvis ; posticæ dilutiores, sericeæ, basi flavescentes.

Cosmia bombycina, Ménétriés, Mém. Acad. Imp. Sci. St. Petersb. 6me Sér. Sci. Nat. vi. 285, 819, pl. 6, f. 7.

Bachkiria.

9. COSMIA RESTITUTA.

Fusca, sublus cinerea; alæ anticæ plagis pallidioribus, lineis transversis indistinctis obscure fuscis, maculis costalibus quatuor (intermediis magnis) albis; posticæ ciliis testaceis.

Brown, cinereous beneath. Palpi and antennæ tawny. Fore wings paler in some parts of the disk, and with very indistinct transverse dark brown lines; four white costal spots; first small, near the base; second and third large, attenuated hindward; fourth very small, near the tip. Hind wings with pale testaceous ciliæ. Length of the body 5 lines; of the wings 14 lines.

a. Nepaul. Presented by Major-Gen. Hardwicke.

Genus 5. ATETHMIA.

Corpus sat validum. Antennæ simplices, graciles. Abdomen alas posticas superans. Pedes sat validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice acutæ, margine exteriore vix obliquo.

Atethmia, Hübn. Verz. Schmett. 238.

Athetmia, Guen. Noct. ii. 12.

Body moderately stout. Antennæ simple, slender. Abdomen extending somewhat beyond the hind wings. Wings moderately broad. Fore wings straight along the costa, acute at the tips; exterior border hardly oblique.

This genus seems to be allied to the *Heliothidæ*, and to the tribe *Minores*.

1. ATETHMIA SUBUSTA.

Mas. *Testacea; alæ anticæ fasciis quinque subundulatis subnebulosis fuscis, subtus strigis duabus discalibus nigris; posticæ albidæ, testaceo marginatæ, subtus fasciis duabus guttularibus nigris.*

Atethmia subusta (Noctua genuina, *Heliophila divisata*), *Hübn. Samml. Exot. Schmett.* ii. 8, 103, f. 205, 206; *Verz. Schmett.* 238, 2368.

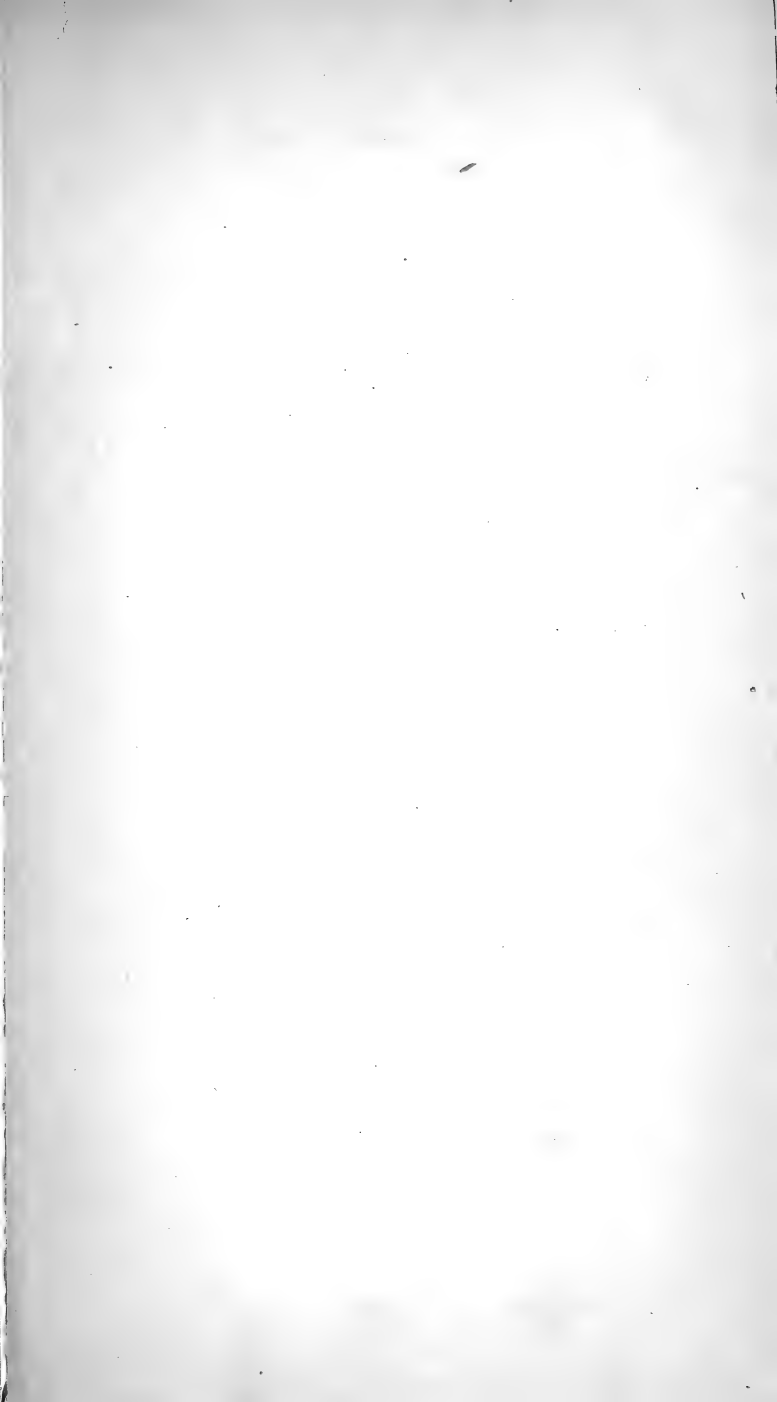
Colombia.

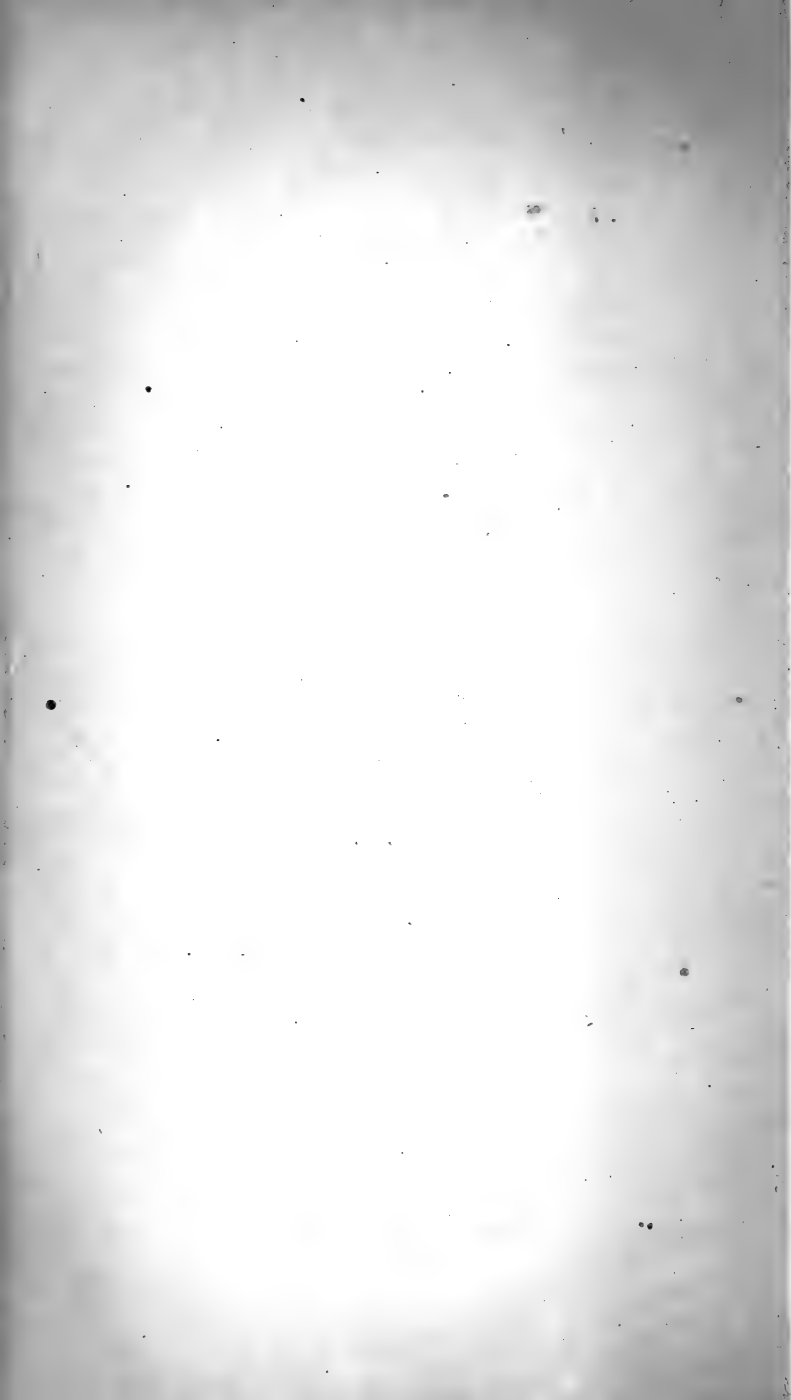
2. ATETHMIA INUSTA.

Ochracea ; *alæ anticæ nigro conspersæ, lineis tribus posticis pallidis approximatis, macula orbiculari nulla, reniformi parva e guttis duabus nigricantibus pallido marginatis* ; *posticæ ochraceo-albæ*. Mas.—*Tibiæ anticæ apice nigricantes*.

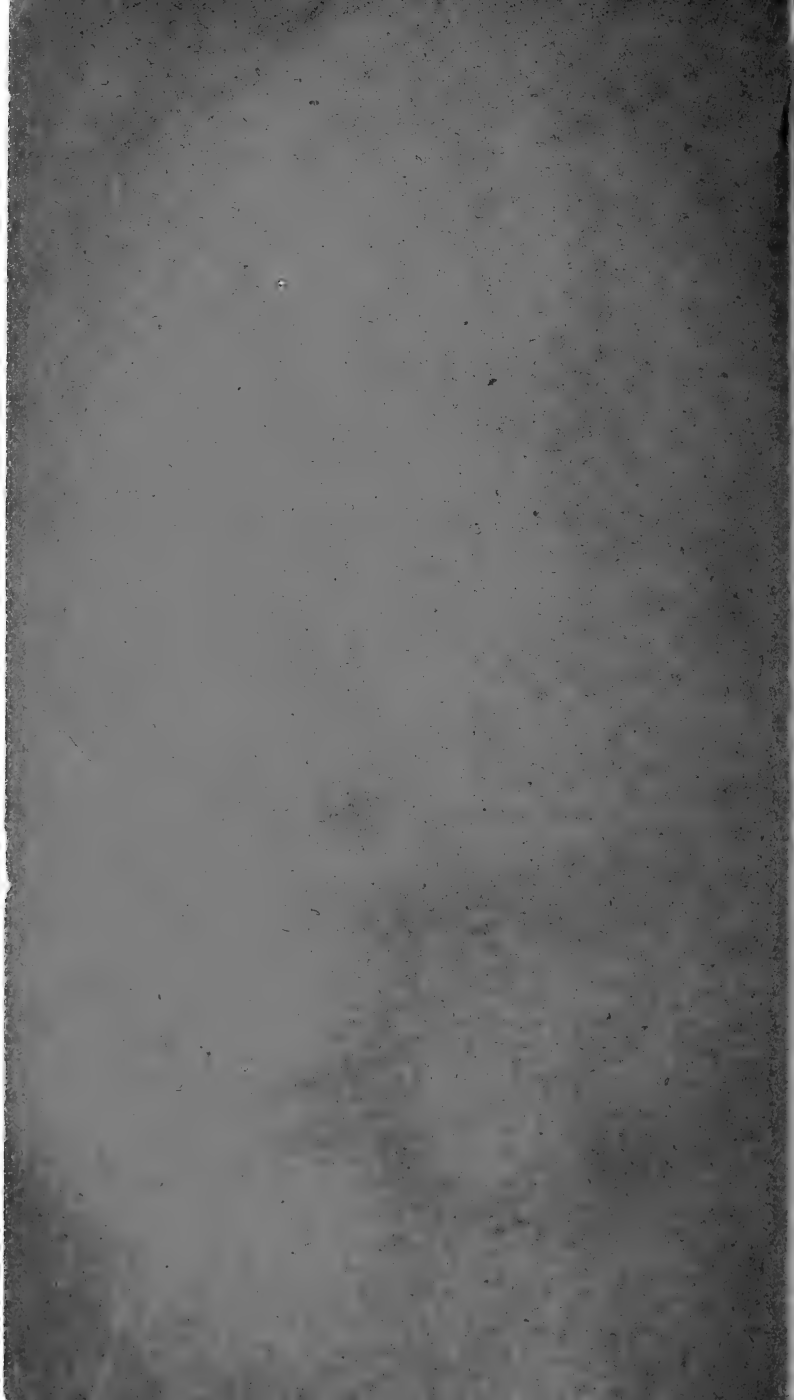
Athetmia inusta, *Guen. Noct. ii. 12, 683*.

Brazil.

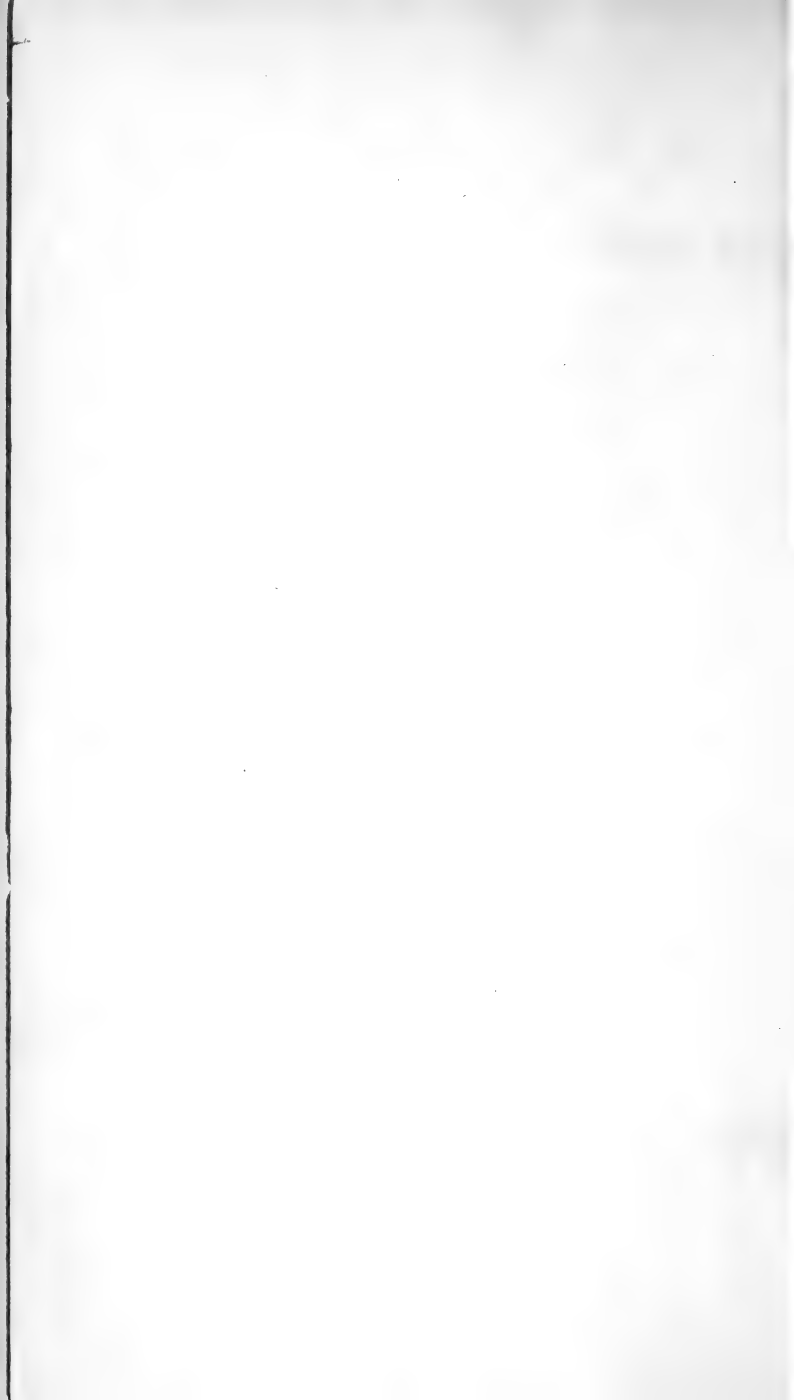


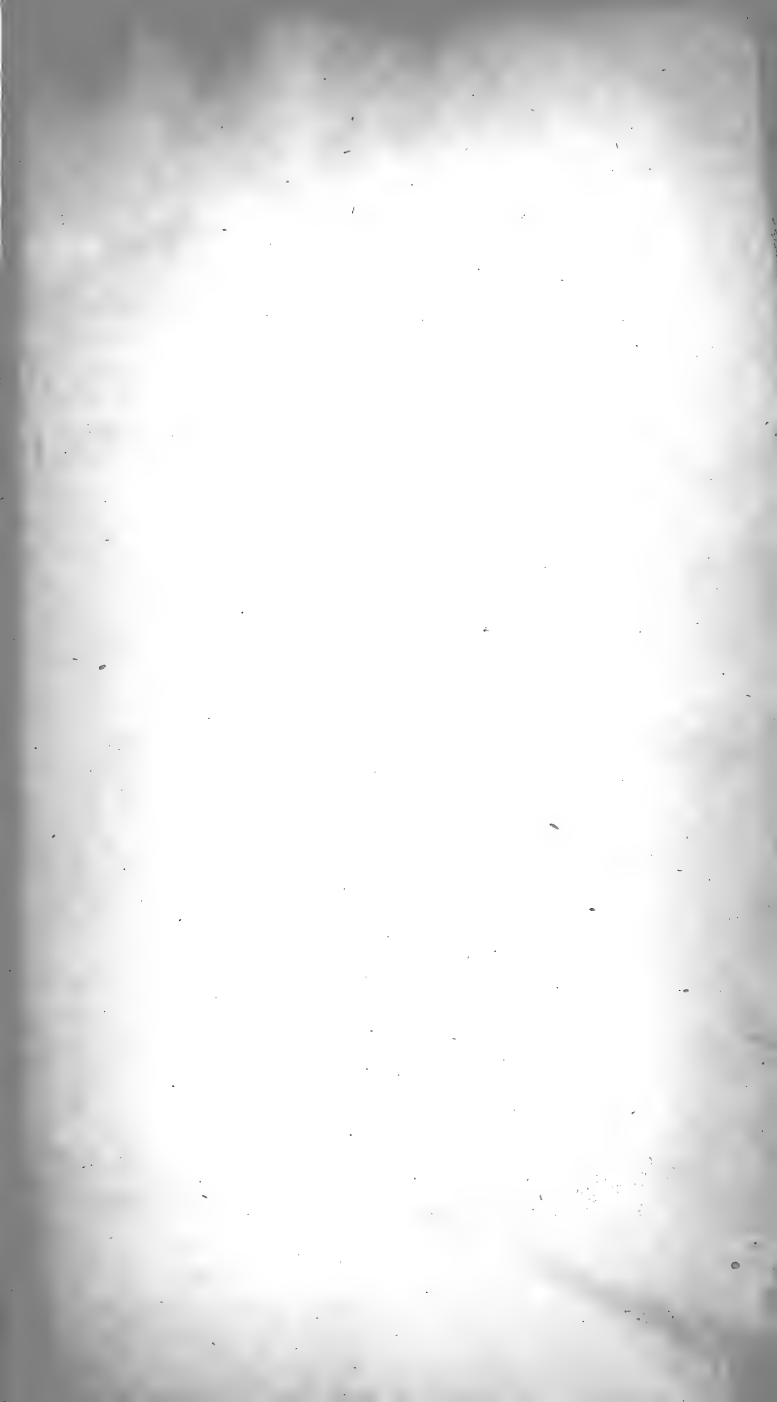














*Ins. cat.
2.6.57*

LIST
OF THE
SPECIMENS
OF
LEPIDOPTEROUS INSECTS
IN
THE COLLECTION
OF THE
BRITISH MUSEUM.

BY
FRANCIS WALKER, F.L.S., &c.

—
PART XI.—NOCTUIDÆ.
—

PRINTED BY ORDER OF THE TRUSTEES.
LONDON, 1857.

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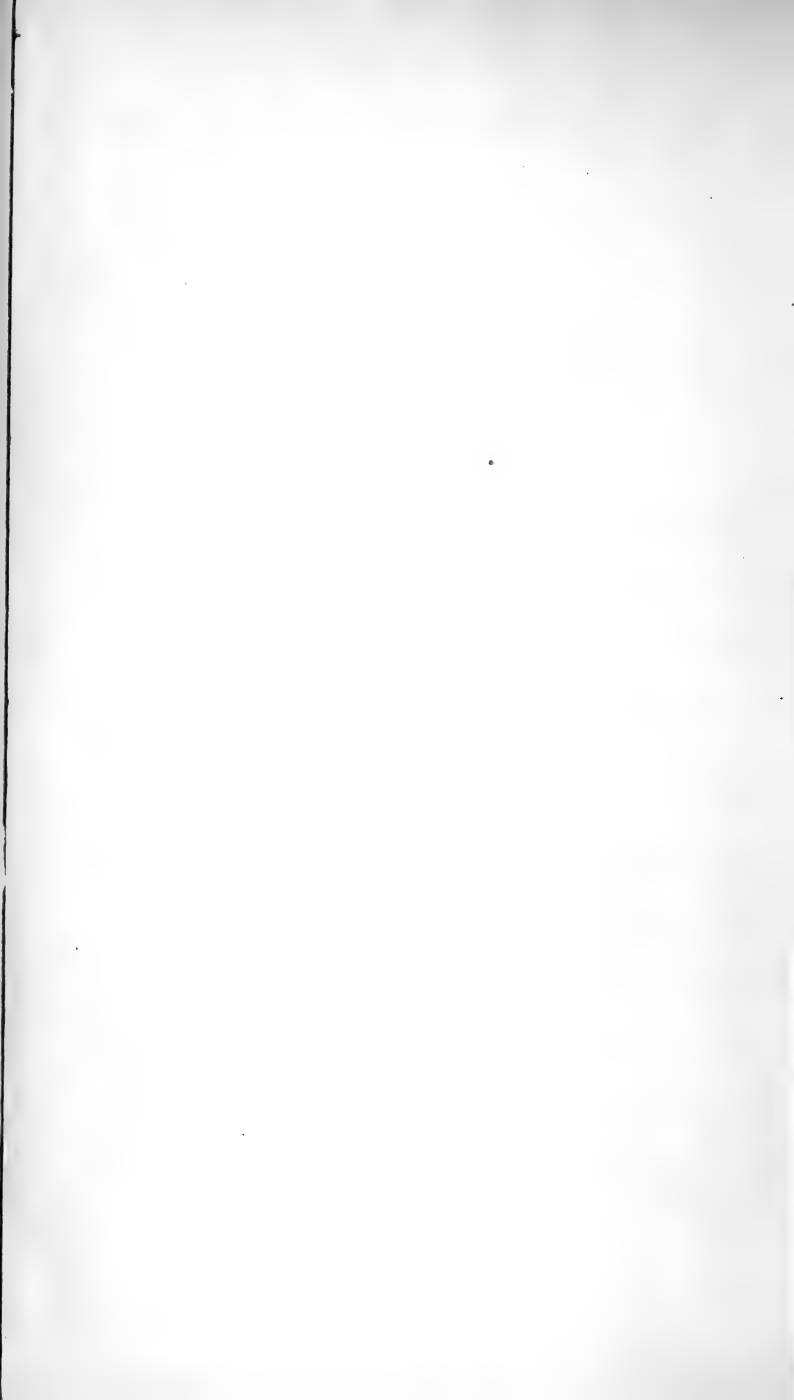
P R E F A C E .

THE object of the present Catalogue is to give a complete list of all the genera and species of Noctuidæ known to exist in the different collections. The letters *a, b, c, &c.*, after the species, denote the specimens now contained in the British Museum, followed by the *habitat* and the mode in which each of them was obtained, and the absence of these *letters* indicates the species which are desiderata, and therefore desirable to be procured for the collection.

JOHN EDWARD GRAY.

British Museum,

March 10, 1857.



CATALOGUE
OF
LEPIDOPTERA HETEROCERA.

THIRD SERIES.

Fam. 8. HADENIDÆ.

Palpi pilosi, sæpissime robusti et ascendentes. Antennæ simplices, *maris* raro pectinatæ. Abdomen sat crassum, sæpissime cristatum. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ coloribus variis, linea submarginali fracta.

Hadenidi, p., *Guen. Ann. Soc. Ent. Fr.* vii. 201.

Hadenidæ, *Guen. Noct.* ii. 14.

Palpi pilose, very generally robust and ascending. Antennæ simple, rarely pectinated in the male. Abdomen rather stout, most often crested. Legs stout; hind tibiæ with long spurs. Fore wings with various colours, very generally of moderate breadth. The characters of this family are somewhat various, and especially those of the genus *Hadena*, in which some of the species have the third joint of the palpi very minute; but they may be easily distinguished from the other genera with palpi of the above structure.

A. Alæ posticæ non dilatatæ nec fasciculatæ.

A. Alæ anticæ plaga nulla trigona.

a. Antennæ non pectinatæ.

a. Antennæ plus minusve ciliatæ.

i. Palpi articulo 3o minimo.

* Corpus non pilosissimum.

† Abdomen *feminæ* attenuatum.

2. DIANTHÆCIA, *Boisd.*

†† Abdomen *feminæ* non attenuatum.

‡ Proboscis breviuscula.

§ Alæ mediocriter latæ.

1. EREMOBIA, *Steph.*

§§ Alæ sat angustæ. - 23. HORMA, *Walk.*

†† Proboscis mediocriter longa.

§ Alæ anticæ margine exteriore vix obliquo.

* Corpus robustum. - - 25. CASANDRIA, *Walk.*

** Corpus sat gracile. - - 27. STIBÆRA, *Walk.*

§§ Alæ anticæ margine exteriore mediocriter obliquo. - 3. HECATERA, *Guen.*

§§§ Alæ anticæ margine exteriore sat obliquo.

× Statura magna. 21. EUROIS, *Hübner.*

×× Statura mediocris.

5. POLIA, *Treit.*

††† Proboscis longiuscula. 28. ELYMISTIS, *Walk.*

** Corpus pilosissimum. - 6. DASYPOLIA, *Guen.*

ii. Palpi articulo 2o minuto.

* Corpus pilosissimum. - - 7. EPUNDA, *Dup.*

** Corpus non pilosissimum.

† Alæ anticæ apice rotundatæ.

‡ Palpi graciles.

§ Corpus sat robustum. 12. MISELIA, *Treit.*

§§ Corpus sat gracile. 10. RAPHIA, *Hübner.*

†† Palpi robusti. - 18. EUPLEXIA, *Steph.*

†† Alæ anticæ apice acutæ. 15. JASPIDEA, *Boisd.*

iii. Palporum articulus 3us mediocris. 4. PHOROCERA, *Guen.*

iiii. Palporum articulus 2us 3o æqualis aut subæqualis.

* Alæ latæ. - - 20. POLYPHLENIS, *Boisd.*

** Alæ mediocres.

† Palpi ascendentes.

‡ Pedes breviusculi. 16. CHARIDEA, *Guen.*

†† Pedes non breviusculi. 22. HADENA, *Treit.*

†† Palpi porrecti.

† Palpi articulo 3o lanceolato.

13. LAMPROSTICTA, *Hübner*.

‡ Palpi articulo 3o lineari cylindrico.

14. AGRIOPIS, *Boisd.*

b. Antennæ omnino nudæ.

i. Palporum articulus 3us mediocris.

4. PHOROCERA, *Guen.*

ii. Palporum articulus 3us longiusculus.

19. HETEROCHROMA, *Guen.*

B. Antennæ maris pectinatæ.

a. Proboscis brevis.

8. DERTHISA, *Walk.*

b. Proboscis mediocriter longa.

i. Corpus sat robustum.

9. EUMICHTIS, *Hübner*.

ii. Corpus sat gracile.

26. PSAPHARA, *Walk.*

iii. Corpus valde robustum.

11. VALERIA, *Germ.*

B. Alæ anticæ plaga maxima trigona. 17. PHLOGOPHORA, *Ochs.*

B. Alæ posticæ maris dilatatæ et fasciculatæ. 24. ERANA, *Walk.*

Genus 1. EREMOMBIA.

Corpus sat robustum. Proboscis breviuscula. Palpi porrecti, caput perpaullo superantes; articulus 3us minimus. Antennæ simplices, corporis dimidio valde longiores. Abdomen alas posticas vix superans. Pedes vix robusti; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori mediocriter obliquo. *Mas.*—Antennæ subciliatæ.

Eremobia, *Steph.*

Xanthia, p., *Ochs.*; *Treit.*; *Dup.*

Atypha, p., *Hübner*. *Verz. Schmett.* 213.

Illarus, *Boisd.*; *Guen. Ann. Soc. Ent. Fr.* vii. 208; *Noct.* ii. 15.

Cleophana, *Herr.-Schæff.*

Body moderately stout. Proboscis rather short. Palpi porrect, extending very little beyond the head; third joint very minute, not more than one-sixth of the length of the second. Antennæ simple, very much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, moderately oblique along the exterior border. *Male.*—Antennæ very minutely ciliated.

1. EREMOBIA OCHROLEUCA.

Albida; abdomen cervino-albidum; alæ anticæ fasciis duabus diffusis cervinis nigro variis; posticæ marginibus latis subcinereis.

———, *Engr. Pap. d'Eur.* 488, a, b.

Noctua ochroleuca, *Wien. Verz.* 67, 4. *Esp. Schmett.* iv. 126, pl. 126, f. 1, 4. *Bork. Eur. Schmett.* iv. 660, 282. *Hübner. Eur. Schmett. Noct.* pl. 19, f. 92.

Atypha ochroleuca, *Hübner. Verz. Schmett.* 214, 2136.

Xanthia ochroleuca, *Treit. Schmett.* v. 345, 3. *Dup. Hist. Nat. Lép. Fr.* vi. 311, pl. 92, f. 3.

Eremobia ochroleuca, *Steph. Ill. Brit. Ent. Haust.* iii. 95.

Noctua (Xanthia) ochroleuca, *Meig. Syst. Besch.* iii. 159, 143, pl. 104, f. 1.

Ilarus ochroleuca, *Boisd. Ind. Méth.* 125, 1004. *Guen. Noct.* ii. 16, 685.

Noctua citrina, *Donov. Brit. Ins.* pl. 350. *Haw. Lep. Brit.* 223.

Cleophana ochroleuca, *Herr.-Schæff. Eur. Schmett.* ii. 298, 358.

a—e. England. From Mr. Stephens' collection.

f—h. England.

i. Ukraine. Presented by Dr. Dowler.

j—m. Europe. From M. Becker's collection.

Genus 2. DIANTHÆCIA.

Corpus robustum. Proboscis breviuscula. Palpi porrecti, pilosi, caput vix superantes; articulus 3us minimus. Antennæ corporis dimidio valde longiores. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; antice apud costam rectæ, apice rotundatæ, margine exteriori subconvexo mediocriter obliquo. *Mas.*—Antennæ subciliatæ. *Fæm.*—Abdomen elongatum et attenuatum.

Dianthæcia, *Boisd.; Guen. Ann. Soc. Ent. Fr.* vii. 204; *Noct.* ii. 16; *Steph.*

Polia, p., *Hadena*, p., et *Miselia*, p., *Treit.; Steph.*

Epia, p., *Neuronia*, p., *Hadena*, p., *Mimetes*, p., *Polymixis*, p., et *Harmodia*, p., *Hübner. Verz. Schmett.*

Body stout. Proboscis rather short. Palpi porrect, pilose, hardly extending beyond the head; third joint very minute, not more than one-sixth of the length of the second. Antennæ very much more than half the length of the body. Legs stout; hind

tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, slightly convex and moderately oblique along the exterior border. *Male*.—Antennæ minutely ciliated. *Female*.—Abdomen elongated and attenuated.

A. Alæ anticæ non glaucescentes.

A. Alæ anticæ albo non fasciatæ nec plagiatae.

a. Alæ anticæ non luteo notatæ.

a. Alæ anticæ non cinerascetes.

i. Alæ anticæ lunulis nullis marginalibus nigris.

Echii, *Bork.*

ii. Alæ anticæ lunulis marginalibus nigris.

* Thorax non albo varius.

† Alæ anticæ orbiculari non obliqua.

carpophaga, *Bork.*

†† Alæ anticæ orbiculari obliqua.

‡ Alæ anticæ linea submarginali subangulata.

capsincola, *Wien. Verz.*

‡‡ Alæ anticæ linea submarginali valde angulata.

Cucubali, *Wien. Verz.*

** Thorax albo varius.

Magnolii, *Boisd.*

b. Alæ anticæ cinerascetes.

i. Alæ anticæ non albo variæ.

tephroleuca, *Boisd.*

ii. Alæ anticæ albo variæ.

sejuncta, *Herr.-Schæff.*

B. Alæ anticæ basi luteo strigatæ.

filigramma, *Esp.*

c. Alæ anticæ luteo variæ.

a. Alæ anticæ non testaceæ.

xanthocyanea, *Hübner.*

b. Alæ anticæ testaceæ.

capsophila, *Anderr.*

B. Alæ anticæ albo plagiatae.

A. Alæ anticæ macula nulla apicali.

albomacula, *Bork.*

B. Alæ anticæ macula apicali alba.

conspersæ, *Wien. Verz.*

C. Alæ anticæ albo fasciatæ.

A. Alæ anticæ non cervinæ.

a. Alæ posticæ obscuræ.

compta, *Wien. Verz.*

b. Alæ posticæ pallidæ.

Armeriæ, *Boisd.*

B. Alæ anticæ cervinæ.

Silenes, *Hübner.*

B. Alæ anticæ glaucescentes.

cæsia, *Wien. Verz.*

1. DIANTHÆCIA ECHIL.

Cervino-albida; thorax lunulis duabus lateralibus nigris; alæ anticæ fasciis duabus diffusis fuscis, lineis transversis undulosis ocellisque duobus nigris, ciliis nigro notatis; posticæ fuscæ, marginibus latis obscurioribus, ciliis albis.

- , *Engr. Pap. d' Eur.* 488, c, d.
Noctua Echii, *Bork. Eur. Schmett.* iv. 67. *Hüb. Eur. Schmett.*
Noct. f. 91. *Dup. Hist. Nat. Léop. Fr.* vi. 308, pl. 93. *Frey.*
Beit. ii. 173.
Miselia Echii, *Treit. Schmett.* ii. 343; *Suppl.* x. 100.
Noctua Brecciæformis, *Esp. Schmett.* iv. 198.
Noctua Syngenesiæ, *Scriba, Beit.* iii. pl. 13, f. 5.
Epia Echii, *Hüb. Verz. Schmett.* 214, 2132.
Dianthæcia Echii, *Boisd. Ind. Méth.* 125, 1003. *Guen. Noct.* ii.
 18, 686. *Herr.-Schæff. Schmett. Eur.* ii. 248, 195.
a—d. Europe. From M. Becker's collection.

2. DIANTHÆCIA CARPOPHAGA.

Fuscescens; thorax fascia antica vittisque duabus nigricantibus;
 abdomen testaceum; alæ anticæ ocellis duobus discalibus,
 lineis transversis undulatis, guttis costalibus lunulisque margi-
 nalibus albidis nigro marginatis; posticæ subcinereæ, linea
 discali margineque lato fuscis.

- Noctua carpophaga*, *Bork. Eur. Schmett.* iv. 169. *Och. Dup.*
Hist. Nat. Léop. Fr. iii. 305, pl. 92.
Noctua perplexa, *Hüb. Eur. Schmett. Noct.* f. 89.
Miselia carpophaga, *Treit. Schmett.* i. 306.
Neuronion perplexa, *Hüb. Verz. Schmett.* 216, 2149.
Dianthæcia carpophaga, *Boisd. Ind. Méth.* 125, 1001. *Herr.-*
Schæff. Schmett. Eur. ii. 249, 193. *Guen. Noct.* ii. 19, 687.
Var. Noctua ochracea, *Haw. Lep. Brit.* 110.
Hadena? ochracea, *Steph. Ill. Brit. Ent. Haust.* ii. 186, pl. 23.
Dianthæcia capsophila? *Herr.-Schæff. Schmett. Eur.* ii. 462.
Var. Noctua Nisus, *Germ.*
Dianthæcia Nisus, *Herr.-Schæff. Schmett. Eur.* ii. 194, pl. 90,
 f. 461.

- a—j.* England. From Mr. Stephens' collection.
k—n. England.
o—r. Europe. From M. Becker's collection.

3. DIANTHÆCIA CAPSOPHILA.

Testacea; alæ anticæ ochraceo fuscoque variæ; area tertia pone
 lineam undulatam testacea; posticæ canescentes, linea fascia-
 que marginali cinereis.

Dianthæcia capsophila, Anderregg. *Boisd. Ind. Méth.* 125, 1002.
Dup. Hist. Nat. Lép. Fr. Suppl. iv. 100, pl. 58. *Herr.-Schæff.*
Schmett. Eur. ii. 248, 192, pl. 90, f. 462. *Guen. Noct.* ii. 20,
 688.

Valais. South France. Spain.

4. DIANTHÆCIA CAPSINCOLA.

Fusca; alæ anticæ lineis transversis lunulatis guttisque costalibus nigricantibus albidisque, linea submarginali angulosa, orbiculari et reniformi albedo et nigricante marginatis, macula postica nigro-fusca; posticæ cinereæ, margine fusco, ciliis canescentibus.

————, *Engr. Pap. d'Eur.* 460, b.

Noctua capsincola, *Wien. Verz.* 84, 6. *Esp. Schmett.* iv. pl. 173,
 f. 5. *Bork. Eur. Schmett.* iv. 367, 151. *Hübner. Eur. Schmett.*
Noct. pl. 12, f. 57. *Dup. Hist. Nat. Lép. Fr.* vi. 334, pl. 93,
 f. 6. *Scriba, Beit.* pl. 6, f. 5. *Haw. Lep. Brit.* 103.

Noctua (*Hadena*) *capsincola*, *Meig. Handb.* 160, 33; *Syst. Besch.*
 iii. 110, 51, pl. 101, f. 5.

Hadena capsincola, *Hübner. Verz. Schmett.* 216, 2157. *Treit.*
Schmett. v. 308, 3.

Miselia capsincola, *Steph. Ill. Brit. Ent. Haust.* ii. 188.

Noctua bicurris, *Naturf.* ix. 53.

Noctua impressa? *Esp. Schmett.* iv. pl. 152, f. 3.

Noctua Cucubali, var., *Fabr. Ent. Syst.* iii. 300.

Dianthæcia capsincola, *Boisd. Ind. Méth.* 125, 997. *Herr.-Schæff.*
Schmett. Eur. ii. 248, 191. *Guen. Noct.* ii. 21, 689.

a—i. England. From Mr. Stephens' collection.

j—l. England.

m—p. Europe. From M. Becker's collection.

5. DIANTHÆCIA CUCUBALI.

Cinerascens; caput et thorax fusco conspersa; alæ anticæ sub-roseo-fuscae, subnebulosæ, fasciis tribus repandis pallidioribus albedo nigroque marginatis, 2a antice furcata, costa pallidioris guttis nigris; posticæ canescentes, margine lato fuscescente.

————, *Engr. Pap. d'Eur.* 465, a—c.

Noctua Cucubali, *Wien. Verz.* 84, 5. *Esp. Schmett.* iv. pl. 173, f.
 6. *Bork. Eur. Schmett.* iv. 363, 150. *Hübner. Eur. Schmett.*

Noct. pl. 12, f. 51. *Sepp. Ins.* iv. pl. 32. *Dup. Hist. Nat. Lép.*
Fr. vi. pl. 93, f. 5. *Frey. Beit.* pl. 88. *Haw. Lep. Brit.* 102.

Noctua (Hadena) Cucubali, *Meig. Handb.* 160, 33 ; *Syst. Besch.* iii. 110, 51.

Noctua rivularis, *Fabr. Sp. Ins.* ii. 234, 124 ; *Mant. Ins.* ii. 171, 241 ; *Ent. Syst.* iii. 2, 201, 300.

Phalæna-Noctua Cucubali, *Gmel. ed. Syst. Nat.* i. 5, 2576, 1175.

Hadena Cucubali, *Hübner. Verz. Schmett.* 216, 2158. *Treit. Schmett.* v. 308, 3. *Steph. Ill. Brit. Ent. Haust.* ii. 187. *Curt. Brit. Ent.* 308.

Dianthæcia Cucubali, *Boisd. Ind. Méth.* 125, 996. *Herr.-Schæff. Schmett. Eur.* ii. 248, 190. *Guen. Noct.* ii. 21, 690.

a—f. England. From Mr. Stephens' collection.

g, h. England.

i—m. Europe. From M. Becker's collection.

6. DIANTHÆCIA SILENES.

Cervina ; thorax albo varius ; alæ anticæ lineis duplicatis undulatis fuscis, macula postica strigisque lanceolatis exterioribus nigris, maculis orbiculari et reniformi, fascia exteriori incompleta guttisque marginalibus albis ; posticæ pallidiores, fascia submarginali fusca.

Noctua Silenes, *Hübner. Eur. Schmett. Noct.* f. 653.

Miselia Silenes, *Treit. Schmett. Suppl.* 67.

Dianthæcia Silenes, *Dup. Hist. Nat. Lép. Fr. Suppl.* iv. 219, pl. 69. *Boisd. Ind. Méth.* 125, 994. *Herr.-Schæff. Schmett. Eur.* ii. 248, 196. *Guen. Noct.* ii. 22, 691.

Epia Silenes, *Hübner. Verz. Schmett.* 214, 2133.

South France. Spain.

7. DIANTHÆCIA SEJUNCTA.

Cinerea ; alæ anticæ lineis transversis undulatis variis fuscis, orbiculari et reniformi albo variis, macula costali subapicali strigisque lanceolatis submarginalibus albis.

Dianthæcia sejuncta, *Herr.-Schæff. Schmett. Eur.* ii. 249, 197, pl. 76, f. 391. *Guen. Noct.* ii. 22, 692.

Constantinople.

8. DIANTHÆCIA CÆSIA.

Canescens; *alæ anticæ fasciis duabus diffusis (exteriore latissima) glaucis, macula intermedia costali guttisque costalibus nigricantibus*; *posticæ cinereæ, margine lato fuscescente, ciliis pallidis.*

———, *Engr. Pap. d' Eur.* 355, a—c.

Noctua cæsia, *Wien. Verz.* O, 9. *Bork. Eur. Schm.* iv. 118.
Hüb. Eur. Schm. Noct. f. 60. *Dup. Hist. Nat. Lép. Fr.*
 vi. 415, pl. 98, f. 6.

Noctua dichroma, *Esp. Schm.* iv. pl. 155, f. 2.

Miselia cæsia, *Triet. Schm.* v. 21.

Mimetes cæsia, *Hüb. Verz. Schm.* 210, 2102.

Dianthæcia cæsia, *Boisd. Ind. Méth.* 125, 993. *Dup. Suppl.* pl.
 25. *Herr.-Schæff. Schm.* *Eur.* ii. 248, 189. *Guen. Noct.*
 ii. 22, 694.

Valais. Savoy. Tyrol. Styria.

a, b. Europe. From M. Becker's collection.

c. ———? From Mr. Milne's collection.

9. DIANTHÆCIA FILIGRAMMA.

Fusca; *thorax albo nigroque varius*; *alæ anticæ albo variæ, lineis undulatis nigris, maculis nigro ex parte marginatis, striga basali lutea*; *posticæ cinereo-fusæ.*

Noctua filigramma, *Esp. Schm.* v. 396, pl. 130, f. 4. *Frey. Beit.*
 pl. 137, f. 3. *Dup. Hist. Nat. Lép. Fr.* vi. 413, pl. 98?

Noctua Polymita, *Wien. Verz.* H. 4. *Fabr. Ent. Syst.* iii. 2, 188?
Hüb. Eur. Schm. Noct. pl. 48.

Noctua flavivibica, *Hüb. Texte.*

Miselia filigramma, *Treit. Schm.* v. 19; *Suppl.* x. 51.

Var. *Dianthæcia xanthofusca*, *Guen. Ind.* 243.

Polymixis Polymita, *Hüb. Verz. Schm.* 205, 2059.

Dianthæcia filigramma, *Boisd. Ind. Méth.* 125, 992. *Herr.-Schæff.*
Schmett. Eur. ii. 250, 199, pl. 90, f. 465. *Guen. Noct.* ii. 23,
 695.

Germany. Tyrol. Hungary. Styria.

a, b. Europe. From M. Becker's collection.

10. DIANTHÆCIA XANTHOCYANEA.

Cinereo-fusca ; thorax fasciis duabus obliquis ochraceis ; alæ anticæ ochraceo variæ, lineis undulatis nigris albo marginatis, macularum marginibus strigisque marginalibus lanceolatis albis ; posticæ cinereæ, linea margineque fuscis.

Noctua xanthocyanea, *Hübner. Eur. Schmett. Noct.* 640.

Mimetes xanthocyanea, *Hübner. Verz. Schmett.* 210, 2104.

Dianthæcia filigramma, *Boisd. Ind. Méth.* 125, 992. *Guen. Ind.* 243.

Dianthæcia xanthocyanea, *Dup. Hist. Nat. Lép. Fr. Suppl.* vii. 526, pl. 90. *Herr.-Schæff. Schmett. Eur.* ii. 250, 198, pl. 90, f. 464. *Guen. Noct.* ii. 23, 696.

Europe.

Var. *Minor ; alæ anticæ fuscæ, gutta basali ochracea, lineis undulatis, macularum marginibus guttisque marginalibus albis.*

Dianthæcia conspurcata, *Herr.-Schæff. Schmett. Eur.* ii. 251, 202, pl. 90, f. 463, 470.

South Russia.

11. DIANTHÆCIA TEPHROLEUCA.

Fusco-cinerea ; alæ anticæ lineis transversis undulatis nigricantibus et canescentibus, linea submarginali angulosa, maculis nigricante et canescente marginatis vix distinctis ; posticæ cinerascetes.

Dianthæcia tephroleuca, *Bisd. Ind. Méth.* 125, 999. *Dup. Hist. Nat. Lép. Fr. Suppl.* vi. 244, pl. 22, f. 5. *Herr.-Schæff. Schmett. Eur.* ii. 250, 200 ; ii. pl. 28, f. 91 ; pl. 140, f. 469. *Guen. Noct.* ii. 24, 697.

Polia tephroleuca, *Boisd. Ann. Soc. Ent. Fr.* iii. 374, pl. 14, f. 4.

Chamouni.

12. DIANTHÆCIA MAGNOLII.

Fusca ; thorax albo varius ; abdomen cinereo-fuscum ; alæ anticæ lineis undulatis albis nigrisque, lituris costalibus, macularum marginibus guttisque marginalibus albis ; posticæ cinereæ, linea margineque fuscis, ciliis pallidis.

Dianthæcia Magnolii, *Boisd. Ind. Méth.* 125, 990. *Dup. Hist. Nat. Léop. Fr. Suppl.* vi. 241, pl. 22, f. 4. *Herr.-Schæff. Schmett. Eur.* ii. 250, 201, pl. 15, f. 71. *Guen. Noct.* ii. 24, 698.

Noctua Numosa, *Frey. Beit.* iv. pl. 351, f. 3. *Eversm. Faun. Volg.-Ural.* 232.

South France. Sicily. South Russia.

13. DIANTHÆCIA ALBIMACULA.

Fusca; *thorax fascia interrupta antica vittisque lateralibus arcuatis nigris albo marginatis*; *alæ anticæ macula basali, orbiculari et reniformi discalibus maculaque posteriore albis nigro marginatis, lineis quatuor transversis angulosis nigris albo marginatis, ciliis albo variis*; *posticæ cinerascens, margine fusco, ciliis albis.*

———, *Engr. Pap. d'Eur.* 337, a, b.

Noctua albimacula, *Bork. Eur. Schmett.* iv. 60.

Miselia albimacula, *Treit. Schmett.* iv. 391. *Steph. Ill. Brit. Ent. Haust.* iii. 20.

Noctua compta, *Esp. Schmett.* iv. pl. 117, A, f. 7.

Noctua concinna, *Hübner. Eur. Schmett. Noct.* pl. 51. *Dup. Hist. Nat. Léop. Fr.* vi. 359, pl. 95.

Harmodia compta? *Hübner. Verz. Schmett.* 207, 2074.

Dianthæcia albimacula, *Guen. Ann. Soc. Ent. Fr.* iii. 197; *Noct.* ii. 15, 699. *Herr.-Schæff. Schmett. Eur.* ii. 251, 204. *Boisd. Ind. Méth.* 124, 987.

a. England.

b—d. Europe. From M. Becker's collection.

14. DIANTHÆCIA CONSPERSA.

Caput et thorax alba, nigro varia; *abdomen pallidissime cinerascens*; *alæ anticæ nigro-cinereæ, plagis duabus anticis, vitta interrupta postica lineaque transversa exteriore undulata ad apicem dilatata albis*; *posticæ pallidissime cinerascens, margine latissimo purpureo-fusco.*

———, *Engr. Pap. d'Eur.* 332, d—g.

Phalæna-Bombyx conspersa, *Gmel. ed. Syst. Nat.* i. 5, 2444, 587.

- Noctua conspersa*, *Wien. Verz.* 71, 6. *Bork. Eur. Schmett.* iv. 151, 61. *Esp. Schmett.* iv. pl. 119, f. 5. *Hübner. Eur. Schmett. Noct.* pl. 11, f. 52. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 95, f. 1.
- Bombyx annulata*, *Fabr. Sp. Ins.* ii. 207, 157; *Mant. Ins.* ii. 134, 218; *Ent. Syst.* iii. 1, 483, 238.
- Harmodia conspersa*, *Hübner. Verz. Schmett.* 207, 2075.
- Noctua* (*Miselia*) *conspersa*, *Meig. Syst. Besch.* iii. 123, 74, pl. 102, f. 6.
- Dianthæcia conspersa*, *Boisd. Ind. Méth.* 124, 988. *Herr.-Schæff. Schmett. Eur.* ii. 251, 205. *Guen. Noct.* ii. 25, 700.
- Miselia conspersa*, *Treit. Schmett.* v. 387, 1.
- Noctua compta*, *Haw. Lep. Brit.* 54.
- Miselia compta*, *Steph. Ill. Brit. Ent. Haust.* iii. 26.
- a—m.* England. From Mr. Stephens' collection.
- n—p.* England.
- q—s.* Europe. From M. Becker's collection.
- t, v.* France.
- u.* ———?

15. DIANTHÆCIA COMPTA.

Fusco-cinerea; *caput et thorax albo varia*; *abdomen cinereum*; *pedes albo fasciati*; *alæ anticæ glauco tinctæ, cervino notatæ, lineis transversis undulatis atris, fascia lata media antice divisa, litura basali lineaque submarginali albis*; *posticæ palide cinereæ, margine lato fusciscente, ciliis albidis.*

———, *Engr. Pap. d' Eur.* 232, a—c.

- Phalæna-Noctua compta*, *Gmel. ed. Syst. Nat.* i. 5, 2570, 1155.
- Noctua compta*, *Wien. Verz.* 70, 5. *Fabr. Mant. Ins.* ii. 169, 225; *Ent. Syst.* iii. 2, 95, 280. *Esp. Schmett.* iv. pl. 119, f. 6. *Bork. Schmett.* iv. 147, 59. *Hübner. Eur. Schmett. Noct.* pl. 11, f. 53. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 95, f. 2.
- Dianthæcia compta*, *Boisd. Ind. Méth.* 125, 989. *Herr.-Schæff. Schmett. Eur.* ii. 251, 206. *Guen. Noct.* ii. 25, 701.
- Harmodia compta*, *Hübner. Verz. Schmett.* 207, 2074.
- Noctua-Miselia compta*, *Meig. Syst. Besch.* iii. 124, 76, pl. 102, f. 7.
- Miselia compta*, *Treit. Schmett.* v. 389, 2.
- a, b.* Europe. From M. Becker's collection.
- c—e.* France.

16. DIANTHÆCIA ARMERIÆ.

Fœm. *Flavescente-cinerea, D. comptæ affinis, oviductu apicem versus longiore tenuiore spatulato; thorax pilis cinereis albisque; alæ anticæ fascia lata alba maculas orbicularem et reniformem includente; posticæ pallidæ.*

Dianthæcia Armeriæ, Boisd. MSS. Guen. Noct. ii. 26, 702.

South Russia.

North America.

17. DIANTHÆCIA CAPSULARIS.

Cinerea; thorax lineis transversis nigris; alæ anticæ lineis undulatis duplicatis strigisque marginalibus lanceolatis nigris, illis albo marginatis, orbiculari alba; posticæ cinereæ.

Dianthæcia capsularis, Guen. Noct. ii. 22, 693.

a. East Florida. Presented by E. Doubleday, Esq.

South America.

18. DIANTHÆCIA? DELECTANS.

Mas. *Testaceo-fusca; abdomen testaceum, fasciculis apiceque fuscis; alæ anticæ lineis duplicatis angulosis nigricantibus, maculis vix conspicuis, plaga exteriori nigricante, macula apicali cervina albido lineata, lunulis marginalibus nigris; posticæ cinereo-æneæ, marginibus æneo-fuscis.*

Male. Testaceous-brown. Palpi obliquely ascending; third joint not more than one-fourth of the length of the second. Abdomen testaceous, with brown tufts towards the base, and a brown tip. Fore wings with the transverse lines double, zigzag, blackish; discal spots very indistinct; a large blackish patch beyond the reniform spot, adjoining the apical spot, which is fawn-coloured with whitish lines; marginal lunules black. Hind wings cinereous-æneous, with æneous-brown borders. Length of the body 5 lines; of the wings 12 lines.

a. Santarem. From Mr. Bates' collection.

19. DIANTHÆCIA? TRIPLAGA.

Mas. *Cana; palpi fusci, suberecti; antennæ subciliatæ; thorax pilis clavatis; abdomen crista dorsali fasciculisque lateralibus nigris; alæ anticæ obscure cinereæ, fasciis duabus latissimis lineaque basali testaceis fusco marginatis, reniformi subquadrata albida; posticæ albide, marginibus æneo-fuscis.*

Male. Hoary. Palpi brown, almost erect; third joint conical, not more than one-sixth of the length of the second. Antennæ very indistinctly ciliated. Thorax with club-shaped hairs. Abdomen with a slight dorsal crest, and slight lateral tufts of black hairs. Fore wings dark cinereous, with two very broad irregular testaceous brown-bordered bands, the first communicating with a testaceous brown-bordered line near the base; the second interrupted, submarginal; reniform spot distinguished by a large subquadrate whitish mark; exterior border rather oblique. Hind wings whitish, with brownish æneous borders. Length of the body 6 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

Africa:

20. DIANTHÆCIA PRÆTERMISSA.

Fœm. *Cinereo-fusca; abdomen cinereum; alæ anticæ margine exteriori vix denticulato, lineis testaceis undulatis incompletis nigro marginatis, orbiculari et reniformi testaceis, æqualibus, sat angustis, illa obliqua; posticæ pallide cinereæ.*

Female. Cinereous-brown. Palpi slightly ascending; third joint conical, not more than one-fourth of the length of the second. Abdomen cinereous, extending a little beyond the hind wings. Fore wings with the lines testaceous, undulating, incomplete, bordered with black; exterior border hardly denticulated; orbicular and reniform spots testaceous, rather narrow; the former oblique, as large as the latter. Hind wings pale cinereous, with broad brownish borders. Length of the body 5 lines; of the wings 12 lines.

a. Cape. From M. Dregé's collection.

21. DIANTHÆCIA RUPTILINEA.

Cinerea, nigro conspersa; alæ anticæ lituris nonnullis costalibus lineisque incompletis angulosis nigris, maculis discalibus nigris, albido marginatis, orbiculari albido lineata, maculis duabus exterioribus nigris, linea submarginali angulosa albida, lunulis marginalibus nigris albido marginatis; posticæ albæ, lunulis marginalibus nigris.

Cinereous. Thorax and fore wings sprinkled with black. Third joint of the palpi less than one-fourth of the length of the second. Antennæ simple. Abdomen hardly extending beyond the hind wings. Hind tibiæ with long spurs. Fore wings entire and moderately oblique along the exterior border, with some black costal marks and some incomplete zigzag black lines; discal spots blackish with whitish borders; orbicular divided by a whitish line; two blackish spots between the reniform and the zigzag whitish submarginal line; a row of black marginal lunules, with whitish borders. Hind wings white, with minute black marginal lunules. Length of the body 6 lines; of the wings 14 lines.

a, b. Port Natal. From M. Gueinzus' collection.

Australia.

22. DIANTHÆCIA ?? INTERFERENS.

Ferruginea; palpi ex parte nigri; antennæ nigrae; thorax fasciis nigris, albido marginatis; alæ anticæ lineis nigris duplicatis undulatis incompletis antice ex parte diffusis, lunulis marginalibus nigris, orbiculari e gutta pallida, reniformi e litura nigra; posticæ subferrugineo-cinereæ, ciliis canis.

Ferruginous. Palpi porrect, partly black, extending a little beyond the head; third joint very minute, not one-sixth of the length of the second. Antennæ black. Thorax with blackish bands. Abdomen wanting. Fore wings with the transverse lines black, double, undulating, incomplete and irregular, and partly diffuse in front; a row of black marginal lunules; discal spots almost obsolete, the orbicular distinguished by a pale dot, the reniform by a black mark. Hind wings cinereous, with a slight ferruginous tinge, and with hoary ciliæ. Length of the body 5 lines; of the wings 12 lines.

a. Adelaide. Presented by the Entomological Club.

Genus 3. HECATERA.

Corpus sat validum. Proboscis mediocriter longa. Palpi pilosi, porrecti, caput vix superantes; articulus 3us minimus. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas plus minusve superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subconvexo mediocriter obliquo.

Polia, p., *Ochs.*; *Treit.*; *Boisd.*; *Steph.*; *Herr.-Schæff.*

Xanthopastis et Æthria, p., *Hübner. Verz. Schmett.*

Hecatera, *Guen. Noct.* ii. 27.

Body moderately stout. Proboscis moderately long. Palpi pilose, porrect, hardly extending beyond the head; third joint very minute, not more than one-sixth of the length of the second. Antennæ simple, much more than half the length of the body. Abdomen extending a little, or as much as one-third of its length beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, slightly convex, and moderately oblique along the exterior border.

A. Alæ anticæ luteo variæ.

A. Alæ anticæ obscuræ. - - - - - dysodea, *Wien. Verz.*

B. Alæ anticæ pallidæ. - - - - - luteocincta, *Ramb.*

B. Alæ anticæ luteo perparum notatæ. - - - - - caduca, *Herr.-Schæff.*

C. Alæ anticæ non luteo notatæ.

A. Alæ anticæ viridi variæ. - - - - - Corsica, *Ramb.*

B. Alæ anticæ non viridi variæ.

A. Alæ anticæ fasciatæ.

a. Thorax albidus. - - - - - serena, *Wien. Verz.*

b. Thorax cinereus, antice albidus. - - - - - monticola, *Dup.*

B. Alæ anticæ vix fasciatæ. - - - - - Cappa, *Hübner.*

1. HECATERA CORSICA.

Alæ anticæ subcinereæ, albo fusco et viridi variæ, lineis transversis dentatis nigris; posticæ fuscæ, striga albida transversa obsoleta.

Polia Corsica, *Ramb. Ann. Soc. Ent. Fr.* i. 279, pl. 9, f. 3.

Dianthæcia Corsica, *Boisd. Ind. Méth.* 125, 1000.

Hecatera Corsica, *Guen. Noct.* ii. 28, 703.

Corsica. Madrid.

2. HECATERA LUTEOCINCTA.

Alæ anticæ albido-subcinereæ fusco variæ, strigis quatuor transversis sinuato dentatis, externa, maculis ordinariis basique flavo notatis.

Polia luteocincta, Ramb. Ann. Soc. Ent. Fr. iii. 382, pl. 8, f. 1.
Dup. Hist. Nat. Léop. Fr. Suppl. iii. 278, pl. 26. *Boisd. Ind. Méth.* 126, 1007. *Herr.-Schæff. Eur. Schmett.* ii. 267, 260, pl. 75, f. 384.

Hecatera luteocincta, Guen. Noct. ii. 28, 704.

South France.

3. HECATERA DYSODEA.

Fusco-cinerea; thorax albido luteoque varius; alæ anticæ lineis transversis undulatis albidis et nigricantibus luteo notatis, maculis non bene determinatis; posticæ pallide cinereæ, margine lato fuscescente, ciliis albidis.

———, *Engr. Pap. d'Eur.* 350, a, i. *Wilk.* pl. 14?

Noctua dysodea, Wien. Verz. 72, 5. *Hübner. Eur. Schmett. Noct.* pl. 10, f. 47. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 98, f. 2.

Noctua flavicincta minor, *Esp. Schmett.* iv. pl. 153, f. 6, 7.

Noctua chrysozona, *Bork. Eur. Schmett.* iv. 264, 113.

Noctua (Polia) dysodea, *Meig. Syst. Besch.* iii. 132, 90, pl. 101, f. 7.

Noctua Ranunculina, *Haw. Lep. Brit.* 64.

Noctua Spinaciæ, *View.*

Polia dysodea, *Treit. Schmett.* v. 16, 4. *Dup. Hist. Nat. Léop. Fr. Suppl.* v. pl. 1, f. 2. *Steph. Ill. Brit. Ent. Haust.* iii. 32. *Boisd. Ind. Méth.* 126, 1006. *Herr.-Schæff. Eur. Schmett.* ii. 266, 258.

Xanthopastis dysodea, *Hübner. Verz. Schmett.* 211, 2108.

Hecatera dysodia, *Guen. Noct.* ii. 28, 705.

a—i. England. From Mr. Stephens' collection.

j—n. England.

o—q. Europe. From M. Becker's collection.

4. HECATERA CADUCA.

Cinerea; abdomen albidum; alæ anticæ perparum ochraceo notatæ, lineis transversis undulatis albidis nigro marginatis, linea intermedia nigra, maculis albido nigroque marginatis; posticæ albidæ, margine lato cinereo.

Polia caduca, Herr.-Schæff. *Eur. Schmett.* ii. 266, 259, pl. 94, f. 484.

Hecatera caduca, Guen. *Noct.* ii. 29, 706.

Isle of Oute.

5. HECATERA SERENA.

Albida; thorax fusco varius; abdomen canescens; alæ anticæ lineis transversis paucis incompletis nigris, fascia lata fusca antice dilatata maculas orbicularem et reniformem includente, striga costali subapicali nigricante, margine exteriori cinereo; posticæ cinereæ, margine ex parte ciliisque albis.

———, *Engr. Pap. d' Eur.* 352, e, f.

Phalæna-Noctua serena, Gmel. ed. *Syst. Nat.* i. 5, 2576, 1176.

Noctua serena, Wien. *Verz.* 84, 4. *Fabr. Mant. Ins.* ii. 171, 242; *Ent. Syst.* iii. 2, 171, 301. *Esp. Schmett.* iv. pl. 166, f. 4. *Bork. Eur. Schmett.* iv. 270, 115. *Hübner. Eur. Schmett. Noct.* pl. 11, f. 54. *Dup. Hist. Nat. Lép. Fr.* vi. pl. 98, f. 3. *Haw. Lep. Brit.* 66. *Frey. Beit.* i. pl. 87. *View.* 107.

Noctua Hieracii, Scriba, pl. 13, f. 1, 2.

Noctua Par, *Donov. Brit. Ins.* x. pl. 338.

Noctua placida, *Esp. Schmett.* pl. 166, f. 5, 6.

Noctua (Polia) serena, Meig. *Syst. Besch.* iii. 132, 91, pl. 100, f. 6.

Æthria serena, *Hübner. Verz. Schmett.* 218, 2182.

Polia serena, *Treit. Schmett.* v. 12, 3. *Boisd. Ind. Méth.* 126, 1008. *Herr.-Schæff. Eur. Schmett.* ii. 266, 257. *Steph. Ill. Brit. Ent. Haust.* iii. 32.

Hecatera serena, Guen. *Noct.* ii. 29, 707.

a. England. Presented by H. Doubleday, Esq.

b—j. England. From Mr. Stephens' collection.

k. England. From Mr. Stevens' collection.

l, m. England.

n—p. Europe. From M. Becker's collection.

6. HECATERA MONTICOLA.

Cinerea; caput et thorax anticus albida; abdomen testaceum; alæ anticæ fascia latissima cinerea nigro varia albo notata; posticæ pallide testaceæ, fascia margineque obscurioribus.

Polia monticola, *Dup. Hist. Nat. Lép. Fr.* iii. 314, pl. 92, f. 4. *Boisd. Ind. Méth.* 126, 1009.

Hecatera monticola, *Guen. Noct.* ii. 31, 710.

Hecatera laudabilis?

South France.

7. HECATERA CAPPÄ.

Alba; caput et thorax nigro guttata; thorax lineolis nigris; alæ anticæ lineis transversis undulatis nigris, linea submarginali angulosa, maculis nigro marginatis, plaga discali inter maculas maculaque costali subapicali cinereis; posticæ margine diviso pallide fuscescente.

Noctua Cappa, *Hübner. Eur. Schmett. Noct.* pl. 95, f. 447. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 99, f. 5.

Polia Cappa, *Treit. Schmett.* v. 7, 1. *Boisd. Ind. Méth.* 126, 1010. *Herr.-Schæff. Eur. Schmett.* ii. 267, 262.

Antitype Cappa, *Hübner. Verz. Schmett.* 212, 2116.

Noctua (*Polia*) Cappa, *Meig. Syst. Besch.* iii. 130, 86, pl. 101, f. 9.

Hecatera Cappa, *Guen. Noct.* ii. 31, 711.

a, b. Europe. From M. Becker's collection.

c. Europe. From Dr. Frivaldsky's collection.

North America.

8. HECATERA LAUDABILIS.

Albo-viridis; thorax nigro fasciatus; abdomen cinerascens; alæ anticæ macula basali, lituris costalibus lineisque undulatis albis nigro marginatis, plaga maxima discali fuscescente orbicularem et reniformem includente; posticæ albæ, margine fusco.

Hecatera laudabilis, *Guen. Noct.* iii. 30, 709.

a, b. East Florida. Presented by E. Doubleday, Esq.

c, d. ———? From Mr. Milne's collection.

South America.

9. HECATERA OLIVOCINCTA.

Roseo-alba; alæ anticæ lituris nebulosis vix determinatis, lineis duabus medianis nigris interruptis, umbra mediana latissima recta lineaque submarginali valde sinuata muscoso viridibus, maculis duabus posticis nigris vagis, orbiculari et reniformi indistinctis, illa rotunda punctum viride includente, guttis marginalibus nigris, ciliis olivaceis albisque; posticæ flavescenscente-albidæ, fascia lineaque marginali nigricantibus.

Hecatera olivocincta, *Guen. Noct.* ii. 30, 708.

Brazil.

Genus 4. PHOROCERA.

Corpus robustum. Proboscis longa, valida. Palpi breves, villosi, ascendentes; articulus 3us ovalis, mediocris, squamosus. Antennæ cylindricæ, filiformes, nudæ. Thorax rotundatus, crassus, villosus squamosus. Abdomen brevissimum, conico obtusum, lateribus pilosis. Pedes breves; tibiæ calcaribus longis; tarsi graciles. Alæ crassæ, ciliis densis squamosis; anticæ margine exteriori integro.

Metopoceras, *Guen. Ann. Soc. Ent. Fr. 2me Sér.* viii. *Bull.* xviii.

Phorocera, *Guen. Noct.* ii. 31.

Polia, p., *Dup.*; *Boisd.*; *Herr.-Schæff.*

Body stout. Proboscis long, stout. Palpi short, villose, ascending; third joint ovate, squamose, of moderate length. Antennæ cylindrical, filiform, bare, more than half the length of the body. Abdomen very short, conic-obtuse; sides pilose. Legs short, moderately stout; hind tibiæ with four long slender spurs; tarsi slender. Wings stout, moderately broad, with thick squamose ciliæ. Fore wings straight in front, somewhat rounded at the tips, slightly convex, and moderately oblique along the exterior border, which is not denticulated.

1. PHOROCERA CANTENERI.

Ferrugineo-fusca; abdomen fusco-cinereum; alæ anticæ lineis transversis angulatis nigris, maculis ferrugineis, orbiculari rotunda; posticæ cinereæ, margine lato fusco.

Polia Canteneri, *Dup. Rev. Ent.* i. 37, pl. 3; *Suppl.* iii. 267, pl. 25, f. 2. *Boisd. Ind. Méth.* 126, 1005.

Noctua Canteneri, *Geyer, Eur. Schmett.* f. 824.

Phorocera Canteneri, *Guen. Noct.* ii. 32, 712.

Hyères. Spain.

2. PHOROCERA FELICINA.

Alæ anticæ ferrugineo-rubidæ, maculis ordinariis lineisque pallide cinereis; posticæ rufulæ; antennæ filiformes, subcrassæ; palpi brevissimi, villosi; thorax villosus; abdomen læve.

Polia felicina, *Donzel*, *Ann. Soc. Ent. Fr. 2me Sér.* ii. 199, pl. 6,
No. 2. *Herr.-Schæff. Schmett. Eur.* ii. pl. 94, f. 485.

Phorocera felicina, *Guen. Noct.* ii. 33, 713.

Marseilles.

Genus 5. POLIA.

Corpus sat robustum. Proboscis mediocriter longa. Palpi porrecti, caput vix superantes; articulus 3us minimus. Antennæ corporis dimidio valde longiores. Abdomen alas posticas paullo aut triente superans. Pedes mediocriter validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apicæ rotundatæ, margine exteriori sat obliquo. *Mas.*—Antennæ subciliatæ.

Polia, *Guen. Noct.* ii. 33.

Polia, p., *Treit.*; *Dup.*; *Boisd.*; *Steph.*; *Herr.-Schæff.*

Antitype, *Polymixis*, p., *Xanthopastis*, p., et *Exarnis*, p., *Hübner*.
Verz. Schmett.

Body rather stout. Proboscis moderately long. Palpi porrect, hardly extending beyond the head; third joint very minute, not more than one-sixth of the length of the second. Antennæ very much more than half the length of the body. Abdomen extending a little or as much as one-third of its length beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, rather oblique along the exterior border. *Male.*—Antennæ minutely ciliated.

A. Alæ anticæ non testaceæ aut cervinæ.

A. Alæ anticæ albidæ aut cinereæ aut fuscæ, lineis pallidioribus aut obscurioribus.

A. Alæ anticæ non luteo variæ.

a. Alæ anticæ albæ aut cinereæ.

i. Alæ anticæ litura discali nigra. - - Chi, *Linn.*

ii. Alæ anticæ litura nulla nigra.

* Alæ anticæ non viridi-cinereæ.

† Alæ posticæ albæ aut albidæ. *canescens*, *Boisd.*

†† Alæ posticæ cinereæ.

‡ Alæ anticæ non glaucescentes.

platinea, *Treit.*

‡‡ Alæ anticæ subglaucescentes.

cærulescens, *Guen.*

2. POLIA SUDA.

Viridi-cinerea; abdomen cinereum; alæ anticæ lineis transversis undulatis guttisque exterioribus nigris, maculis nigro marginatis; posticæ albæ.

Noctua suda, Geyer, Eur. Schmett. f. 802.

Polia suda, Dup. Hist. Nat. Lép. Fr. Suppl. iii. 255, pl. 24, f. 3. Boisd. Ind. Méth. 126, 1013. Guen. Noct. ii. 35, 715. Herr.-Schæff. Eur. Schmett. ii. 259, 232, pl. 93, f. 480.

Valais.

3. POLIA CANESCENS.

Canescente-alba; abdomen canescens; alæ anticæ fusco subconspersæ guttis marginalibus lineisque transversis undulatis incompletis pallide fusciscentibus, lineis duabus transversis (una marginali) guttularibus nigricantibus; posticæ albæ.

Polia canescens, Boisd. Ann. Soc. Linn. vi. 113, f. 3; Ind. Méth. 126, 1012. Dup. Hist. Nat. Lép. Fr. Suppl. vi. 422, pl. 99, f. 3. Treit. Suppl. 58. Herr.-Schæff. Schmett. Eur. ii. pl. 91, f. 466. Guen. Noct. ii. 35, 716.

Noctua (Polia) canescens, Meig. Syst. Besch. iii. 131, 88, pl. 102, f. 1.

Var. *Cinerea; thorax linea transversa undulata nigra; alæ anticæ lineis transversis et macularum marginibus nigricantibus bene determinatis; posticæ albidæ, fasciis duabus cinereis.*

Noctua pumicosa, Hübn. Eur. Schmett. Noct. f. 787, 788.

Polia pumicosa, Treit. Suppl. 57. Dup. Hist. Nat. Lép. Fr. Suppl. iii. 282, pl. 26. Boisd. Ind. Méth. 126, 1014.

Var. *Alæ anticæ nebulosæ subcinereæ, atomis nigris adpersæ, lineis nigris obsoletis.*

Polia Asphodeli, Ramb. Ann. Soc. Ent. Fr. i. 281, pl. 9, f. 4. Dup. Hist. Nat. Lép. Fr. Suppl. iii. 282, pl. 26. Herr.-Schæff. Eur. Schmett. ii. 260, 237, pl. 95, f. 488—490.

Corsica.

a—h. Europe. From M. Becker's collection.

i. Europe.

4. POLIA PLATINEA.

Cinerea ; abdomen canescens ; alæ anticæ lineis transversis undulatis maculisque subobsoletis, guttis costalibus lunulisque marginalibus nigricantibus, macula discali albida ; posticæ pallide cinereæ, ciliis albidis.

Polia platinea, Treit. Schmett. ii. 34. Dup. Hist. Nat. Lep. Fr. Suppl. iii. 444, pl. 39. Herr.-Schæff. Eur. Schmett. ii. 261, 238, pl. 8, f. 40 ; pl. 95, f. 487. Boisd. Ind. Méth. 127, 1017. Guen. Noct. ii. 36, 717.

France. Austria. South Switzerland.

5. POLIA NIGROCINCTA.

Alba, nigro conspersa ; abdomen albidum ; tarsi nigri, albo-cincti ; alæ anticæ fascia diffusa strigisque transversis nigris, guttis discalibus et submarginalibus luteis ; posticæ maris albæ, fœminæ nigricantes.

Polia nigrocincta, Ochs. Syst. Gloss. Treit. Schmett. v. 31 ; vi. 397 ; Suppl. 59. Dup. Hist. Nat. Léop. Fr. Suppl. iii. 257, pl. 24, f. 4 (fœm.). Boisd. Ind. Méth. 127, 1019. Guen. Noct. ii. 37, 718. Herr.-Schæff. Eur. Schmett. ii. 260, 235, pl. 94, f. 482.

Var. *Cana* ; alæ anticæ guttis discalibus lineaque transversa undulata submarginali nigro intus marginata flavis, atomis fasciæque diffusa nigris ; posticæ albæ, apud margines subcinereæ.

Noctua xanthomista, Hübn. Eur. Schmett. Noct. f. 647.

Noctua nigrocincta, Frey. Beit. iii. pl. 243.

a—h. Europe. From M. Becker's collection.

6. POLIA ARGILLACEAGO.

Pallide cervina ; alæ anticæ lineis transversis undulatis et punctatis guttisque costalibus nigris, maculis indistinctis ; posticæ albæ.

Noctua argillaceago, Hübn. Eur. Schmett. Noct. f. 682.

Polia venusta, Boisd. Ind. Méth. 127, 1027. Dup. Hist. Nat. Léop. Fr. Suppl. iii. 284, pl. 26. Herr.-Schæff. Eur. Schmett. ii. 262, 240, pl. 12, f. 58, 59.

Polia argillaceago, *Guen. Noct.* ii. 37, 719.

South France. South Russia.

7. POLIA POLYMITA.

Fusco-olivacea; thorax albo nigroque varius; alæ anticæ fasciis undulatis aut angulosis maculisque albis nigro marginatis; posticæ albæ, fascia submarginali cinerascens, lunulis marginalibus nigris.

———, *Deg. Ins.* ii. 412, pl. 6. *Engr. Pap. d'Eur.* f. 439, a, b.

Phalæna-Noctua Polymita, *Linn. Syst. Nat.* 855, 180; *Faun. Suec.* 1217. *Gmel. ed. Syst. Nat.* i. 5, 2543, 180.

Noctua Polymita, *Wien. Verz.* 72, 4. *Fabr. Sp. Ins.* ii. 225, 84; *Mant. Ins.* ii. 155, 145; *Ent. Syst.* iii. 2. *Esp. Schmett.* iv. pl. 170, f. 4. *Scriba, Ins.* pl. 18, f. 5. *Bork. Eur. Schmett.* iv. 116, bis. *Frey. Beitr.* iii. pl. 261. *Dup. Hist. Nat. Lép. Fr.* vi. 417, pl. 99.

Noctua ridens, *Hübner. Eur. Schmett. Noct.* f. 20.

Polymixis Polymita, *Hübner. Verz. Schmett.* 205, 2059. *Treit. Schmett.* v. 24. *Boisd. Ind. Méth.* 127, 1025.

Polia polymita, *Herr.-Schäff. Eur. Schmett.* ii. 261, 239. *Guen. Noct.* ii. 38, 720.

Xanthopastis Polymita, *Hübner. Verz. Schmett.* 211, 2109.

a. Europe. Presented by E. Doubleday, Esq.

b. Europe. From M. Becker's collection.

8. POLIA FLAVOCINCTA.

Cana, nigro conspersa; alæ anticæ lineis transversis undulatis nigricantibus, macularum marginibus, guttis submarginalibus et linea postica luteis; posticæ subcinereæ, macula discali fasciisque duabus cinereis.

———, *Roës. Ins.* i. pl. 55, f. 1—3. *Wilk.* pl. 14. *Engr. Pap. d'Eur.* 349, c—e.

Phalæna-Noctua flavocincta, *Gmel. ed. Syst. Nat.* i. 5, 2571, 1159.

Noctua flavocincta, *Wien. Verz.* 72, 2. *Fabr. Mant. Ins.* ii. 178, 277; *Ent. Syst.* iii. 2, 114, 444. *Esp. Schmett.* iv. pl. 153, f. 1—3. *Bork. Eur. Schmett.* iv. 258, 111. *Hübner. Eur. Schmett. Noct.* f. 46. *Haw. Lep. Brit.* 63. *Donov. Brit. Ins.* x. pl. 334. *Dup. Hist. Nat. Lép. Fr.* vi. 401, pl. 98.

Noctua dysodea, *Esp. Schmett.* iv. pl. 153, f. 4—6. *Bork. Eur. Schmett.* iv. 262, 12.

Xanthopastis flavicincta, *Hübner. Verz. Schmett.* 211, 2107.

Noctua (*Polia*) *flavicincta*, *Meig. Syst. Besch.* iii. 131, 89, pl. 101, f. 6.

Polia flavicincta, *Treit. Schmett.* v. 27, 9. *Steph. Ill. Brit. Ent. Haust.* iii. 32. *Boisd. Ind. Méth.* 127, 1023. *Herr.-Schæff. Eur. Schmett.* ii. 259, 234. *Guen. Noct.* ii. 39, 722.

Var. Polia meridionalis, *Boisd. Ind. Méth.* 127, 1023.

Corsica.

Var. Polia calvescens, *Boisd. Ind. Méth.* 127, 1024.

Sicily.

a—f. England. From Mr. Stephens' collection.

g, i. England.

j—l. Europe. From M. Becker's collection.

9. POLIA CÆRULESCENS.

Cana; *alæ anticæ cinereo subnebulosæ, testaceo subobsolete notatæ, maculis indistinctis, fascia diffusa glaucescente, guttis marginalibus nigris*; *posticæ subcinereæ, ciliis albis.*

Polia cærulescens, *Guen. Ind. Méth.* 127, 1021; *Noct.* ii. 40, 723.

Dup. Hist. Nat. Léop. Fr. Suppl. vii. 95, pl. 58. *Herr.-Schæff.*

Eur. Schmett. ii. 260, 236, pl. 8, f. 38, 39.

South France.

10. POLIA RUFOCINCTA.

Albida; *alæ anticæ fasciis duabus latis incompletis glaucocinereis, strigis maculisque exterioribus luteis*; *posticæ fascia diffusa margineque cinerascentibus.*

Var. Cinerea; *alæ anticæ maculis fasciisque obscurioribus indistinctis ex parte albido notatis.*

Noctua rufocincta, *Hübner. Eur. Schmett. Noct.* f. 747.

Polia rufocincta, *Boisd. Ind. Méth.* 127, 1022. *Dup. Hist. Nat.*

Léop. Fr. Suppl. vi. 259, pl. 24, f. 3, bis. *Herr.-Schæff. Eur.*

Schmett. ii. 259, 233, pl. 8, f. 37; pl. 94, f. 483. *Guen. Noct.*

ii. 41, 724.

France. Switzerland.

11. POLIA ANILIS.

P. ruficinctæ affinis; major; alæ anticæ ad apices minus rotundatæ, albido cinereoque variæ, medio obscuriores subnebulosæ; posticæ albidæ, margine fuscescente.

Polia anilis, Boisd. Ind. Méth. 127, 1020. Dup. Hist. Nat. Léop. Fr. Suppl. vii. 218, pl. 69, f. 1. Herr.-Schæff. Eur. Schmett. ii. 264, 252, pl. 75, f. 385. Guen. Noct. i. 42, 725.

South-East France. Valais.

12. POLIA VETULA.

Alba; alæ anticæ nigro conspersæ, fasciis testaceo fusciscentibus subobsoletis, reniformi maxima, orbiculari subobsoleta, macula postica fusca testaceo submarginata, punctis marginalibus nigris; posticæ nigro vix conspersæ, punctis marginalibus nigris.

Polia vetula, Boisd. Ind. Méth. 127, 1018. Dup. Hist. Nat. Léop. Fr. Suppl. vii. 93, pl. 58, f. 4. Herr.-Schæff. Schmett. Eur. ii. pl. 22, f. 108. Guen. Noct. ii. 43, 726.

South France.

13. POLIA CÆCIMACULA.

Pallide murina, nigro confertim conspersa; alæ anticæ maculis discalibus (reniformi magna extus subincisa) lineisque duabus exterioribus transversis undulatis pallidioribus fusco marginatis, strigis duabus transversis interioribus discalibus punctisque submarginalibus nigricantibus; posticæ nigro-cinereæ.

—————, *Engr. Pap. d'Eur. 415, d—f.*

Phalæna-Noctua cæcimacula, Gmel. ed. Syst. Nat. i. 5, 2541, 1025.

Noctua cæcimacula, Wien. Verz. 81, 14. Fabr. Mant. Ins. ii. 158; Ent. Syst. iii. 2, 72, 204. Esp. Schmett. iv. Texte. Bork. Eur. Schmett. iv. 565, 233. Dup. Hist. Nat. Léop. Fr. vi. 69, pl. 77. Hübn. Eur. Schmett. Noct. f. 137.

Noctua millegrana, Esp. Schmett. iv. pl. 150, f. 1; pl. 187, f. 1—7.

Noctua respersa, Brahm, Ins. 403.

Exarnis cæcimacula, Hübn. Verz. Schmett. 225, 2260.

Noctua (Orthosia) cæcimacula, Meig. Syst. Besch. iii. 111, 52, pl. 98, f. 4.

Orthosia cæcimakula, *Treit. Schmett.* ii. 202. *Boisd. Ind. Méth.* 140, 1128. *Herr.-Schæff. Eur. Schmett.* ii. 200, 58.

Polia cæcimakula, *Guen. Noct.* ii. 43, 727.

a—e Europe. From M. Becker's collection.

Uncertain Species.

14. POLIA? PUNCTICOSTA.

Alæ anticæ cano, cinereo fuscoque variæ, punctis tribus costalibus maculaque ordinaria anteriore majore albis; posticæ fuscæ, basi dilutiores.

Polia puncticosta, *Zett. Ins. Lapp.* 942, 4.

Lapland.

15. POLIA? PROLIXA.

Alæ anticæ cano, fusco cinereoque variæ, maculis duabus ordinariis solito majoribus; posticæ fuscæ, fimbria alba.

Polia proluxa, *Zett. Ins. Lapp.* 942, 1.

Lapland. N. Sweden. Greenland.

North America.

16. POLIA DIFFLUA.

Mas. Fusca; alæ anticæ strigis nonnullis transversis guttisque apicalibus nigris, ocellis duobus discalibus fasciisque subapicalibus arcuatis pallide fuscis; posticæ cinereæ, basi pallidiores.

Exarnis difflua (*Noctua genuina*, *Graphiphora obsoleta*), *Geyer, Zeitr. Samml. Exot. Schmett.* 9, 411, f. 821, 822.

Labrador.

South America.

17. POLIA? POLITIA.

Albida; alæ anticæ lineis transversis fasciisque obliqua exteriore cervinis, lineis tribus transversis strigulisque submarginalibus obliquis nigris; posticæ cervino marginatæ.

Phalæna-Noctua Politia, *Cram. Pap. Exot.* iv. 41, pl. 309, f. F. *Symmerista Politia*, *Hübner. Verz. Schmett.* 248, 2459.

Surinam.

Asia.

18. POLIA STEVENSII.

Canescens; thorax antice albus, guttis duabus lateralibus nigris; alæ anticæ cinereo conspersæ, spatio mediano necnon lituris basalibus et submarginalibus saturate olivaceo-cinereis, lineis distinctis duplicatis, submarginali angulosa, maculis albis bene determinatis disco cinereis, macula costali basali quadrata alba cinereo bilineata, punctis marginalibus quadratis crassis; posticæ nigricante cinereæ, strigis marginalibus crassis obscurioribus, litura apud angulum interiorem alba.

Polia Stevensii, Guen. Noct. ii. 38, 721.

Central Hindostan.

Country unknown.

19. POLIA? PRIVATA.

Mas. *Cinerea*; thorax antice nigro fasciatus; alæ anticæ fuscescente-cinereæ, lineis angulosis albidis et nigris, lunulis marginalibus atris, orbiculari et reniformi albidis nigro marginatis, orbiculari perobliqua; posticæ albæ, venis apice lineaque marginali nigris.

Male. Cinereous. Palpi porrect, extending somewhat beyond the head. Antennæ minutely ciliated. Thorax with a black band in front. Abdomen crested. Fore wings brownish cinereous; the lines zigzag, whitish and black; marginal lunules deep black; spots whitish, with black borders, orbicular very oblique. Hind wings white; veins towards the tips and marginal line black. Length of the body 7 lines; of the wings 18 lines.

a. ———?

Genus 6. DASYPOLIA.

Corpus robustum, pilosissimum. Proboscis brevis. Palpi validi, pilosissimi, caput superantes; articulus 3us minimus. Antennæ validæ, subciliatæ, corporis dimidio longiores. Abdomen alas posticas triente superans. Pedes validi; tibiæ posticæ calcariibus breviusculis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subconvexo sat obliquo.

Luperina, p., *Boisd.*

Spælotis, p., *Dup.*

Crymodes, p., *Guen. Ind.*

Chera, p., *Hübner. Verz. Schmett.* 211.

Polia, p., *Treit. ; Steph. ; Herr.-Schæff.*

Dasypolia, *Guen. Noct.* ii. 44.

Body stout, very pilose. Proboscis short. Palpi stout, very pilose, extending somewhat beyond the head; third joint very minute. Antennæ stout, minutely ciliated, more than half the length of the body. Abdomen extending for almost one-third of its length beyond the hind wings. Legs stout; hind tibiæ with rather short spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, slightly convex and rather oblique along the exterior border.

1. DASYPOLIA TEMPLI.

Cinereo-fusca ; abdomen subtestaceum ; alæ anticæ cano conspersæ, fasciis undulatis subobsoletis, luteo indistincte bivittatæ, maculis canis ; posticæ subtestaceæ, lineis duabus cinereis.

Noctua Templi, *Schalddt, Thunb. Ins. Suec. Holm.* (1792), 56.

Dup. Hist. Nat. Lép. Fr. vi. 43, pl. 75. *Hübner. Eur. Schmett. Noct.* f. 373.

Polia Templi, *Treit. Schmett.* v. 23. *Steph. Ill. Brit. Ent. Haust.* iii. 31, pl. 26, f. 1. *Herr.-Schæff. Schmett. Eur.* ii. 265, 254, pl. 88, f. 454.

Chera Templi, *Hübner. Verz. Schmett.* 211, 2114.

Luperina Templi, *Boisd. Ind. Méth.* 115, 888.

Crymodes Templi, *Guen. Ind.* 238. *Steph. Cat. Brit. Lep.* 99.

Dasypolia Templi, *Guen. Noct.* ii. 44, 728.

a. England. From Mr. Stevens' collection.

New Zealand.

2. DASYPOLIA? DOTATA.

Mas. *Saturate rufo-ferruginea ; alæ anticæ denticulatæ, nigro-cinereo nebulosæ, lituris costalibus lineisque angulosis nigris, submarginali subundulata nigricante-fusca pallido marginata, lunulis marginalibus nigris, maculis nigro marginatis, orbiculari obliqua, reniformi extus albido marginata ; posticæ æneo-fusæ.*

Male. Deep reddish ferruginous, very pilose. Palpi very pilose; third joint very minute, less than one-fourth of the

length of the second. Antennæ ciliated. Abdomen extending a little beyond the hind wings. Fore wings denticulated along the exterior border, with black marks along the costa; disk and borders of the veins mostly clouded with blackish gray; transverse lines angulose, black; submarginal one slightly undulating, blackish brown, with a pale exterior border; marginal black lunules linear; spots bordered with black; claviform spot almost contiguous to the orbicular, the latter oblique and smaller than the reniform, which has a whitish exterior border. Hind wings æneous-brown. Length of the body 8 lines; of the wings 18 lines.

a. New Zealand. Presented by the Rev. W. Colenso.

Genus 7. EPUNDA.

Corpus robustum, pilosissimum. Proboscis mediocriter longa. Palpi validi, pilosi, ascendentes; articulus 3us conicus, brevis. Antennæ corporis dimidio valde longiores. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ, apud costam rectæ, apice subrotundatæ, margine exteriore subdenticulato, mediocriter obliquo. *Mas.*—Antennæ serratæ. Abdomen alas posticas vix triente superans, apud apicem dense fasciculatum. *Fœm.*—Abdomen alas posticas vix superans.

Brithys, p., *Hübner. Verz. Schmett.*

Polia, p., *Treit.*; *Boisd.*; *Dup.*; *Herr.-Schæff.*

Hadena, p., *Dup.*

Epunda, p., *Dup.*; *Guen. Noct.* ii. 45.

Body stout, very pilose. Proboscis moderately long. Palpi stout, pilose, ascending; third joint conical, hardly one-fourth of the length of the second. Antennæ much more than half the length of the body. Legs stout; hind tibiæ with four long spurs. Wings moderately broad, slightly rounded at the tips, moderately oblique and slightly denticulated along the exterior border. *Male.*—Antennæ serrated. Abdomen extending for nearly one-third of its length beyond the hind wings, thickly tufted at the tip. *Female.*—Abdomen hardly extending beyond the hind wings.

1. EPUNDA LUNEBURGENSIS.

Cinereo-fusca; abdomen cinereum; alæ anticæ lineis transversis undulatis et macularum marginibus canis nigro marginatis, fascia intermedia nigra; posticæ cinereæ, fœm. albo ciliatæ.

Orthosia Luneburgensis, *Herr.-Schæff. Schmett. Eur.* ii. 201, 63, pl. 83, f. 428—430.

Epunda Luneburgensis, *Guen. Noct.* ii. 45, 729.

Hanover.

2. EPUNDA NIGRA.

Nigra; *thorax linea transversa atra*; *abdomen cinereum*; *alæ anticæ lineis transversis undulatis atris, reniformi ex parte testaceo marginata, fascia exteriori obliqua subobsoleta atra*; *posticæ maris albæ, fæminæ cinereæ.*

———, *Engr. Pap. d'Eur.* 555, a—c.

Noctua nigra, *Haw. Lep. Brit.* 89.

Noctua nigricans? *Hüb. Eur. Schmett. Noct.* f. 538.

Hadena æthiops, *Ochs. Syst. Gloss. Treit. Schmett.* iv. 184; *Suppl.*

28. *Dup. Hist. Nat. Lép. Fr. Suppl.* v. pl. 1, f. 1.

Charæas nigra, *Steph. Ill. Brit. Ent. Haust.* ii. 110, pl. 20, f. 2.

Noctua æthiops, *Geyer, Schmett.* f. 861. *Frey. Beitr.* ii. pl. 147; iii. pl. 221.

Hadena æthiops, *Boisd. Ind. Méth.* 117, 912.

Polia æthiops, *Herr.-Schæff. Eur. Schmett.* ii. 270.

Polia serpentina, *Herr.-Schæff. Schmett.* ii. 275, 290, pl. 15, f. 72, 73.

Epunda nigra, *Guen. Noct.* ii. 47, 731.

a—g. England. From Mr. Stephens' collection.

h, i. Scotland. From Mr. Foxcroft's collection.

j—l. England.

Genus 8. DERTHISA.

Corpus robustum. Proboscis brevis. Palpi validi, porrecti, pilosi; articulus 3us minimus. Antennæ corporis dimidio valde longiores. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ angustæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subdenticulato sat obliquo. *Mas.*—Antennæ late pectinatæ. Abdomen alas posticas sat superans. *Fæm.*—Antennæ subciliatæ. Abdomen alas posticas vix superans.

Epunda, p., *Guen.*

Colocasia, p., et *Brithys*, p., *Hüb. Verz. Schmett.* 201, 226.

Body stout. Proboscis short. Palpi stout, porrect, pilose; third joint extremely minute, not one-sixth of the length of the second. Antennæ much more than half the length of the body.

Legs stout; hind tibiæ with four long spurs. Wings narrow. Fore wings straight in front, rounded at the tips, rather oblique and very slightly denticulated along the exterior border. *Male*.—Antennæ deeply pectinated. Abdomen extending somewhat beyond the hind wings. *Female*.—Antennæ very minutely ciliated. Abdomen hardly extending beyond the hind wings.

1. DERTHISA SCORIACEA.

Cinerea; tarsi albo-cincti; alæ anticæ fascia lata antice repanda ferruginea lineis submarginalibus maculisque duabus nigris ornata, fascia tenui undulata exteriori fusca, maculaque costali subapicali nigro-fusca, necnon linea transversa basali nigra; posticæ maris albæ, fœm. albidæ.

———, *Roës. Ins.* iii. pl. 11. *Engr. Pap. d'Eur.* 469, a—c.

Bombyx scoriacea, Esp. Cont. Bomb. pl. 83, f. 4, 5. *Treit. Schmett.* iv. 108. *Boisd. Ind. Méth.* 127. 1032; *Icon.* pl. 71.

Noctua scoriacea, Frey. Beitr. pl. 141, f. 3.

Epunda scoriacea, Dup. Hist. Nat. Léop. Fr. Suppl. vi. 157, pl. 15, f. 3. *Guen. Noct.* ii. 47, 733.

Polia scoriacea, Herr.-Schæff. Schmett. Eur. ii. 255, pl. 72, f. 371.

Noctua capreæ, Hübn. Eur. Schmett. Noct. f. 19.

Colocasia scoriacea, Hübn. Verz. Schmett. 201, 2038.

Bombyx trimacula, Bork. Eur. Schmett. iii. 133.

a—f. Europe. From M. Becker's collection.

2. DERTHISA LUTULENTA.

Fusca; abdomen cinereum; alæ anticæ lineis transversis undulatis maculisque subobsoletis; posticæ maris albæ, fœminæ cinereæ, albido ciliatæ.

Noctua lutulenta, Wien. Verz. N. 16. *Dup. Hist. Nat. Léop. Fr.* v. 269, pl. 24, f. 1, 2. *Hübn. Eur. Schmett. Noct.* f. 159.

Noctua melaleuca, Esp. Schmett. iv. pl. 64 f. 5.

Noctua electrica? Fabr. Ent. Syst. iii. 2, 46, 125.

Noctua fusca, Haw. Lep. Brit. 68. *Steph. Ill. Brit. Ent. Haust.* ii. 109.

Noctua orthostigma, Steph. Ill. Brit. Ent. Haust. ii. 110.

Noctua consimilis, Steph. Ill. Brit. Ent. Haust. ii. 110.

Polia Sedi, Dup. Hist. Nat. Léop. Fr. Suppl. vi. 196, pl. 18, f. 1.

Hadena lutulenta, *Treit. Schmett.* iv. 187. *Boisd. Ind. Méth.* 117, 911.

Polia lutulenta, *Herr.-Schæff. Eur. Schmett.* ii. 269, 267, pl. 17, f. 83; pl. 79, f. 405. *Guen. Noct.* ii. 46, 730.

Brithys lutulenta, *Hübner. Verz. Schmett.* 226, 2265.

a—i. England. From Mr. Stephens' collection.

j. England.

k—l. Europe. From M. Becker's collection.

3. DERTHISA CHIOLEUCA.

Purpurascens-fusca; abdomen cinereum; alæ anticæ lineis transversis indistinctis nigris purpureo marginatis, reniformi albo notata; posticæ albæ (mas) aut subtestaceæ (fœm.) macula lineaque cinereis.

Polia chioleuca, *Herr.-Schæff. Schmett. Eur.* ii. 255, pl. 16, f. 76—78.

Epunda chioleuca, *Guen. Noct.* ii. 47, 732.

South Europe.

4. DERTHISA? TEPHRA.

Noctua Tephra, *Hübner. Eur. Schmett. Noct.* f. 797. *Boisd. Ind. Méth.* 127, 1031.

Epunda Tephra, *Guen. Noct.* ii. 48, 736.

Dalmatia.

Genus 9. EUMICHTIS.

Corpus sat robustum. Proboscis mediocriter longa. Palpi porrecti, pilosi, caput non superantes; articulus 3us minimus. Antennæ corporis dimidio valde longiores. Abdomen alas posticas perpaullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori mediocriter obliquo. *Mas.*—Antennæ mediocriter pectinatæ.

Eumichtis, *Hübner. Verz. Schmett.* 211.

Epunda, p., *Guen.*

Body rather stout. Proboscis moderately long. Palpi porrect, pilose, not extending beyond the head; third joint very minute, about one-sixth of the length of the second. Antennæ very

much more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad, straight in front, rounded at the tips, slightly oblique along the exterior border. *Male*.—Antennæ moderately pectinated.

1. EUMICHTIS LICHENEÆ.

Olivacea; abdomen cinerascens, apice cervinum; alæ anticæ lineis transversis undulatis maculaque claviformi albis nigro marginatis, orbiculari testacea nigro signata albo nigroque marginata, reniformi alba testaceo signata nigro ex parte marginata; posticæ albæ, gutta discali lunulisque marginalibus nigricantibus.

Noctua lichenea, Hübn. *Eur. Schmett.* f. 562, 563. *Dup. Hist. Nat. Léop. Fr.* vi. 420, pl. 99.

Polia lichenea, Treit. *Schmett. Suppl.* 54. *Boisd. Ind. Méth.* 127, 1029. *Herr.-Schæff. Eur. Schmett.* ii. 256, 222.

Eumichtis lichenea, Hübn *Verz. Schmett.* 211, 2110.

Epunda lichenea, Guen. *Noct.* ii. 48, 737.

Var. Polia viridicincta, Treit. *Schmett. Suppl.* x. 55. *Boisd. Ind. Méth.* 127, 1030. *Dup. Hist. Nat. Léop. Fr. Suppl.* vi. pl. 262, pl. 24. *Herr.-Schæff. Schmett. Eur.* ii. 256, 223, pl. 81, f. 415.

a, b. England. Presented by J. C. Dale, Esq.

c—i. England. From Mr. Stephens' collection.

j. England. From Mr. Stevens' collection.

k, l. Europe. From M. Becker's collection.

Genus 10. RAPHIA.

Corpus sat gracile. Proboscis mediocriter longa. Palpi pilosi, porrecti, sat graciles; articulus 3us minutus, conicus. Antennæ graciles, corporis dimidio valde longiores. Abdomen alas posticas vix superans. Pedes sat validi; tibiæ posticæ calcaribus quatuor mediocriter longis. Alæ angustæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori sat obliquo.

Raphia, Hübn. *Verz. Schmett.* 212.

Hadena, p., *Herr.-Schæff.*

Cleocerus, *Boisd.*

Bombycia, *Steph.*

Cymatophora, p., *Treit.*

Epunda, p., *Guen.*

Body rather slender. Proboscis moderately long. Palpi pilose, porrect, rather slender; third joint minute, conical, about one-fourth of the length of the second. Antennæ slender, very much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs rather stout; hind tibiæ with four moderately long spurs. Wings narrow. Fore wings straight in front, rounded at the tips, rather oblique along the exterior border.

Europe.

1. RAPHIA VIMINALIS.

Cinerascens; thorax nigro fasciatus; alæ anticæ ex parte subcervinæ, maculis duabus albidis nigro marginatis, strigis duabus posticis lineola connexis lineaque basali nigris.

———, *Roës. Ins.* pl. 11. *Deg. Ins.* ii. 339, pl. 5.
Noctua viminalis, *Fabr. Ent. Syst.* iii. 2, 72, 206. *Dup. Hist. Nat. Lép. Fr.* vi. 177, pl. 84.

Noctua stricta, *Esp. Schmett.* iv. pl. 84, f. 5.

Noctua Saliceti, *Bork. Eur. Schmett.* iv. 266.

Noctua scripta, *Hübner. Eur. Schmett. Noct.* f. 50. *Haw. Lep. Brit.* 143.

Raphia Saliceti, *Hübner. Verz. Schmett.* 212, 2119.

Bombycia viminalis, *Steph. Ill. Brit. Ent. Haust.* iii. 58.

Cymatophora Saliceti, *Treit. Schmett.* iv. 104.

Hadena Saliceti, *Herr.-Schæff. Eur. Schmett.* ii. 282, 314.

Cleoceris viminalis, *Boisd. Ind. Méth.* 93, 703.

Epunda viminalis, *Guen. Noct.* ii. 48, 734.

a—k. England. From Mr. Stephens' collection.

l—p. England.

q—t. Europe. From M. Becker's collection.

v, u. Europe.

North America.

2. RAPHIA ONYCHINA.

R. viminali simillima; alæ anticæ magis cinereæ, macula orbitali maxima subquadrata intus nigro marginata, reniformi ex parte rufescente tincta, linea submarginali e maculis tribus quadratis obscurioribus.

Epunda onychina, *Guen. Noct.* ii. 48, 735.

North America.

3. *RAPHIA PROPULSA*.

Mas et fœm. *Cinerea*; palpi breves, ascendentes; antennæ simplices, validæ; thorax linea antica transversa nigra; abdomen pallidum; alæ anticæ lineis nigris duplicatis undulatis incompletis, extus albido tinctæ, linea submarginali alba, strigis submarginalibus nigris, maculis magnis nigro ex parte marginatis, orbiculari subrotunda intus albo marginata, ciliis apud venas albis; posticæ pallide cinereæ, marginibus latis obscurioribus subcupreis. **Mas.**—Abdomen apice fasciculatum.

Male and female. Cinereous. Palpi short, ascending. Antennæ simple, rather stout. Thorax with a black transverse line in front. Abdomen pale. Fore wings with the transverse line black, double, incomplete, irregularly undulating; submarginal line white, angulose, accompanied by some black streaks; a whitish tinge between it and the exterior median line; orbicular and reniform spots large, partly bordered with black; orbicular nearly round, with an inner white border; ciliæ white opposite the veins. Hind wings pale cinereous, with broad rather darker and slightly cupreous borders. *Male.*—Abdomen tufted at the tip. Length of the body 5 lines; of the wings 12 lines.

a. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

Genus 11. *VALERIA*.

Corpus valde robustum et pilosum. Proboscis mediocriter longa. Palpi validi, porrecti, pilosi; articulus 3us cylindricus, 2i dimidio non brevior. Antennæ corpore paullo breviores. Abdomen cristatum, alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ longiusculæ, mediocriter latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subconvexo sat obliquo. **Mas.**—Antennæ mediocriter pectinatæ.

Valeria, Germ.; Steph.; Guen. Ann. Soc. Ent. Fr. vii. 121; Noct ii. 49.

Meganephria, p., Hübn. Verz. Schmett. 206.

Miselia, p., Ochs; Treit.; Boisd.

Body very stout and pilose. Proboscis moderately long. Palpi stout, porrect, pilose; third joint cylindrical, full half the length of the second. Antennæ full three-fourths of the length of the body. Abdomen crested, extending a little beyond the hind wings. Legs

stout ; hind tibiæ with four long spurs. Wings moderately broad, rather long. Fore wings straight in front, rounded at the tips, slightly convex and rather oblique along the exterior border. *Male*.—Antennæ moderately pectinated.

1. VALERIA OLEAGINA.

Nigricans ; abdominis latera fulvescentia ; alæ anticæ viridi variæ, guttis costalibus et marginalibus albis, maculi orbiculari fusca albo marginata, reniformi alba nigro bipunctata ; posticæ albæ, fascia margineque cinereis.

———, *Engr. Pap. d' Eur.* 441, a—d.

Phalæna-Bombyx oleagina, *Gmel. ed. Syst. Nat.* i. 5, 2418, 515.

Bombyx oleagina, *Fabr. Mant. Ins.* ii. 117, 92 ; *Ent. Syst.* iii. 1, 440, 101. *Oliv. Enc. Méth.* v. 63, 136. *Bork. Schmett.* 350, 131. *Donov. Brit. Ins.* xiii. pl. 439.

Noctua oleagina, *Wien. Verz.* 59, 2. *Esp. Schmett.* iv. pl. 60, f. 4. *Hübner. Eur. Schmett. Noct.* pl. 7, f. 33. *Dup. Hist. Nat. Lép. Fr.* vi. pl. 95. f. 6. *Haw. Lep. Brit.* 116. *Frey. Beitr.* ii. pl. 134.

Miselia oleagina, *Treit. Schmett.* v. 401, 7. *Boisd. Ind. Méth.* 124, 981.

Valeria oleagina, *Steph. Ill. Brit. Ent. Haust.* iii. 23. *Herr.-Schaff. Eur. Schmett.* ii. 294, 349. *Guen. Noct.* ii. 50, 738. *Bruand, Ann. Soc. Ent. Fr. 2me Sér.* vii. 39.

Noctua (Miselia) oleagina, *Meig. Syst. Besch.* iii. 125, 78, pl. 103, f. 6.

Meganephria oleagina, *Hübner. Verz. Schmett.* 206, 2071.

a—c. England. From Mr. Stephens' collection.

d, e. England.

f. Europe. From M. Becker's collection.

2. VALERIA JASPIDEA.

Fusca ; abdomen pallide fuscum, vitta cinerea, fasciis pallidis ; alæ anticæ virides, striga postica basali flava, vitta discali fusca, macularum marginibus lineaque submarginali postice valde angulosa albis, guttis marginalibus nigris, linea marginali flava, ciliis fuscis testaceo strigatis ; posticæ albidæ, gutta discali fascisque duabus fuscis, linea marginali flava.

Noctua jaspidea, *Vill. Ent. Lin.* ii. 284, 383.

Miselia jaspidea, *Donzel*, *Ann. Soc. Ent. Fr.* x. 211, pl. 4, pt. 1.
Dup. Hist. Nat. Lép. Fr. Suppl. iv. 90, pl. 58. *Herr.-Schæff.*
Schmett. Eur. ii. 294, 350, pl. 83, f. 426.

Valeria jaspidea, *Guen. Noct.* ii. 51, 739. *Bruand*, *Ann. Soc. Ent.*
Fr. 2me Sér. vii. 39; *Ann. Soc. Linn. Lyon.* 1850—1852,
 253.

South France.

3. VALERIA? ORBICULOSA.

Fusco-cinerea; *alæ anticæ lineis interioribus angulosis pallide cinereis, exterioribus nigris albido marginatis, reniformi maculaque apicali rufescentibus, lituris costalibus albidis; posticæ albæ, litura margineque latissimo atris.*

Noctua orbiculosa, *Esp. Schmett.* iv. 93, pl. 93, f. 8.

Miselia orbiculosa, *Treit. Schmett.* iv. 404. *Boisd. Ind. Méth.*
 124, 982.

Valeria orbiculosa, *Herr.-Schæff. Eur. Schmett.* ii. 294, 351, pl. 13,
 f. 63, 64. *Guen. Noct.* ii. 52, 741.

Hungary.

South America.

4. VALERIA BERYLLUS.

Violaceo-fusca; *femora rufescentia, pilosissima; alæ anticæ lineis conspicuis violaceis aut olivaceo-viridibus, linea alba strigaeque angulata carnea submarginalibus, margine viridi guttis nigris, orbiculari et reniformi valde approximatis, hac viridi rufoque marginata, illa angulata alba viridi varia; posticæ cupreo-cinereæ, macula lineaque nigris.*

Valeria beryllus, *Guen. Noct.* ii. 51.

Brazil.

Genus 12. MISELIA.

Corpus sat robustum. Proboscis mediocriter longa. Palpi porrecti, caput vix superantes; articulus 3us cylindricus, 2i triente non brevior. Antennæ corpore paullo breviores. Abdomen cristatum, perpaullo superans. Pedes sat graciles; tibiæ posticæ calcariibus longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice subacutæ, margine exteriore mediocriter obliquo. *Mas.*—Antennæ serratæ aut subciliatæ.

Miselia, *Guen. Ann. Soc. Ent. Fr.* vii. 122; *Noct.* ii. 53.

Meganephria, p., *Hübner. Verz. Schmett.*

Miselia, p., *Treits.*; *Steph.*; *Boisd.*; *Herr.-Schæff.*

Xylophasia, p., *Herr.-Schæff.*

Body moderately stout. Proboscis moderately long. Palpi porrect, extending very little beyond the head; third joint cylindrical, full one-third of the length of the second. Antennæ about three-fourths of the length of the body. Abdomen crested, extending very little beyond the hind wings. Legs rather slender; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, slightly acute at the tips, moderately oblique along the exterior border. *Male*.—Antennæ serrated or minutely ciliated.

1. MISELIA OXYACANTHÆ.

Cinerascens; thorax fusco varius, linea transversa undulata nigra; alæ anticæ vittis viridibus squamosis, lineis transversis undulatis, striga basali, reniformis margine guttisque submarginalibus nigris, fascia marginali canescente strigaeque postica alba.

———, *Albin. Ins.* pl. 14, 10. *Roës. Ins.* i. pl. 33. *Wilk.*

Pap. 12, pl. 1, c. 1. *Engr. Pap. d'Eur.* 328, a—f.

Phalæna-Noctua Oxyacanthæ, *Linn. Faun. Suec.* 1207. *Gmel. ed. Syst. Nat.* i. 2569, 165.

Noctua Oxyacanthæ, *Wien. Verz.* 70, 3. *Fabr. Sp. Ins.* ii. 232, 114; *Mant. Ins.* ii. 168, 222; *Ent. Syst.* iii. 2, 98, 277. *Esp. Schmett.* iv. pl. 160, f. 1—7. *Bork. Schmett.* iv. 155, 63. *Hübner. Eur. Schmett. Noct.* pl. 71, f. 31. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 96, f. 1. *Sepp. Ins.* iii. pl. 13. *Haw. Lep. Brit.* 115. *Donov. Brit. Ins.* v. pl. 165.

Meganephria Oxyacanthæ, *Hübner. Verz. Schmett.* 206, 2069.

Noctua (Miselia) Oxyacanthæ, *Meig. Handb.* 162, 36; *Syst. Besch.* iii. 126, 79, pl. 102, f. 3.

Miselia Oxyacanthæ, *Treit. Schmett.* v. 405, 9. *Steph. Ill. Brit. Ent. Haust.* iii. 24. *Herr.-Schæff. Eur. Schmett.* ii. 295, 352. *Boisd. Ind. Méth.* 124, 983. *Guen. Noct.* ii. 54, 742.

a—c. England. Presented by H. Doubleday, Esq.

d—u. England. From Mr. Stephens' collection.

w. England. From Mr. Foxcroft's collection.

x, y. England.

z—bb. Europe. From M. Becker's collection.

2. MISELIA BIMACULOSA.

Albicans, fusco confertim conspersa ; abdomen sordide albidum ; alæ anticæ maculis tribus oblongis albis fusco marginatis, lineolis nonnullis lanceolatis nigris, vittis duabus abbreviatis fuscis ; posticæ subcinereæ, maculis duabus nigricantibus, una discali altera postica.

—————, *Engr. Pap. d'Eur.* 327, a, b.

Phalæna-Noctua bimaculosa, *Gmel. ed. Syst. Nat.* i. 5, 2544, 184.

Noctua bimaculosa, *Wien. Verz.* 70, 2. *Fabr. Mant. Ins.* ii. 157, 152 ; *Ent. Syst.* iii. 2, 70, 197. *Esp. Schmett.* iv. pl. 157, f. 5 ; pl. 194, f. 3, 4. *Bork. Eur. Schmett.* iv. 144, 57. *Hüb. Eur. Schmett. Noct.* pl. 7, f. 32. *Dup. Hist. Nat. Lép. Fr.* vi. pl. 96, f. 2.

Miselia bimaculosa, *Treit. Schmett.* v. 408, 10. *Curt. Brit. Ent.* pl. 177. *Steph. Ill. Brit. Ent. Haust.* iii. 24. *Boisd. Ind. Méth.* 124, 984. *Guen. Noct.* ii. 55, 743.

Xylophasia bimaculosa, *Herr.-Schæff. Eur. Schmett.* ii. 289, 336.

Noctua (Miselia) bimaculosa, *Meig. Syst. Besch.* iii. 128, 82, pl. 103, f. 5.

Meganephria bimaculosa, *Hüb. Verz. Schmett.* 206, 2070.

a. England.

b—d. Europe. From M. Becker's collection.

Genus 13. LAMPROSTICTA.

Corpus robustum. Proboscis mediocriter longa. Palpi porrecti, caput paullo superantes ; articulus 3us lanceolatus, 2i triente non longior. Antennæ corporis dimidio valde longiores. Abdomen cristatum, alas posticas paullo superans. Pedes validi ; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori vix convexo mediocriter obliquo. *Mas.*—Antennæ subserratæ.

Chariptera, *Guen. Ann. Soc. Ent. Fr.* vii. 124 ; *Noct.* ii. 55.

Lamprosticta, *Hüb. Verz. Schmett.* 206.

Miselia, p., *Ochs.* ; *Treits.*

Polia, p., *Boisd.*

Body stout. Proboscis moderately long. Palpi porrect, extending a little beyond the head ; third joint lanceolate, about one-third of the length of the second. Antennæ very much more than

half the length of the body. Abdomen crested, extending a little beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, very slightly convex and moderately oblique along the exterior border. *Male*.—Antennæ minutely serrated.

1. LAMPROSTICTA CULTA.

Alba, nigro varia; abdomen fasciculis dorsalibus albo-nigris; alæ fuscae, maculis nonnullis nigris, lineis transversis undulatis ocellisque tribus nigro-albis; posticæ albæ margaritaceæ, macula apud angulum interiorem (mas) aut marginibus (fœm.) nigricantibus.

———, *Engr. Pap. d'Eur.* 327, a—c. *Schæff. Icon.* i. pl. 66.

Phalæna-Noctua culta, *Gmel. ed. Syst. Nat.* i. 5, 2570, 1154.

Noctua culta, *Wien. Verz.* 70, 4. *Fabr. Mant. Ins.* ii. 165, 224; *Ent. Syst.* iii. 2, 94, 279. *Esp. Schmett.* iv. pl. 120, f. 4. *Bork. Eur. Schmett.* iv. 145, 58. *Hübner. Eur. Schmett. Noct.* pl. 7, f. 34. *Dup. Hist. Nat. Lép. Fr.* v. pl. 95, f. 4. *Frey. Beitr.* i. pl. 93.

Phalæna viridana, *Naturf.* 1779, pl. 3, f. 5.

Lamprosticta culta, *Hübner. Verz. Schmett.* 207, 2072.

Noctua (Miselia) culta, *Meig. Syst. Besch.* iii. 125, 77, pl. 102, f. 5.

Miselia culta, *Treit. Schmett.* v. 395, 5. *Boisd. Ind. Méth.* 124, 985.

Chariptera culta, *Guen. Noct.* ii. 56, 744. *Herr.-Schæff. Eur. Schmett.* ii. 294, 348.

a—e. Europe. From M. Becker's collection.

2. LAMPROSTICTA GEMMEA.

Viridi-fuscescens; thorax fasciis anticis vittisque duabus lateralibus arcuatis fuscescentibus; alæ anticæ ocellis duobus discalibus, maculis posticis guttisque costalibus albis nigro marginatis, lineis transversis angulosis nigris; posticæ cinerascens, fasciis duabus angustis margineque fuscescentibus.

Miselia gemmea, *Treit. Schmett.* v. 393; *Suppl.* 52. *Boisd. Ind. Méth.* 124, 986. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 269, pl. 24, f. 1.

Dianthæcia gemmea, Herr.-Schæff. *Schmett. Eur.* ii. 251, 203; ii. pl. 15, f. 470.

Chariptera gemmea, Guen. *Noct.* ii. 58, 746.

Germany. Switzerland. Lapland.

a. Europe. From M. Becker's collection.

North America.

3. LAMPROSTICTA FESTA.

Æneo-fusca; caput parvum, albo nigroque varium, thoracis cristæ rufescente marginatæ; alæ anticæ area media magna alba lineis undulatis atris subparallelis fasciata, maculis atro marginatis, orbiculari parva rotunda, reniformi fusco inquinata nigro divisa, lunulis marginalibus albis nigro marginatis, ciliis albis nigrisque; posticæ nigricantes, ciliis interrupte albis.

Chariptera festa, Guen. *Noct.* ii. 57, 745.

Carolina.

Genus 14. AGRIOPIS.

Corpus robustum. Proboscis mediocriter longa. Palpi porrecti, caput sat superantes; articulus 3us cylindricus, 2i dimidio fere longior. Antennæ corporis dimidio multo longiores. Abdomen latum, alas posticas sat superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ longiusculæ, mediocriter latæ, apud costam rectæ, apice rotundatæ, margine exteriore subconvexo sat obliquo. *Mas.*—Antennæ vix serratæ.

Moma, p., Hübner. *Verz. Schmett.* 203.

Miselia, p., Treitschke; Steph.

Agriopis, Boisduval. *Ind. Méth.* 123. Guen. *Noct.* ii. 58.

Body stout. Proboscis moderately long. Palpi porrect, extending somewhat beyond the head; third joint cylindrical, full half the length of the second. Antennæ much more than half the length of the body. Abdomen broad, extending somewhat beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad, rather long, straight in front, rounded at the tips, slightly convex and rather oblique along the exterior border. *Male.*—Antennæ very minutely serrated.

1. AGRIOPIS APRILINA.

Glauco-viridis; thorax nigro varius; abdomen cinereum; tarsi nigro cincti; alæ anticæ fasciis undulatis et macularum marginibus incompletis nigris albo marginatis, costa alba nigro notata, guttis marginalibus lanceolatis nigris; posticæ nigro-cinereæ fasciis duabus albidis.

———, *Roës. Ins.* iii. pl. 39, f. 4. *Rai, Ins.* 158, 4. *Sulz. Ins.* pl. 22, f. 8. *Deg. Ins.* i. pl. 5, f. 22, 23. *Sepp. Ins.* ii. pl. 2921. *Engr. Pap. d'Eur.* 326, a—k.

Phalæna-Noctua aprilina, Linn. Faun. Suec. 1178. *Gmel. ed. Syst. Nat.* i. 5, 2561, 138.

Noctua aprilina, Fabr. Sp. Ins. ii. 234, 125; *Mant. Ins.* ii. 172, 246; *Ent. Syst.* iii. 2, 102, 305. *Esp. Schmett.* iv. pl. 118, f. 1—3. *Bork. Eur. Schmett.* iv. 141, 56. *Hübner. Eur. Schmett. Noct.* pl. 15, f. 71. *Dup. Hist. Nat. Lép. Fr.* vi. pl. 95, f. 5. *Haw. Lep. Brit.* 112. *Donov. Brit. Ins.* pl. 354, f. 1.

Moma aprilina, Hübner. Verz. Schmett. 203, 2050.

Miselia aprilina, Treit. Schmett. v. 411, 11. *Steph. Ill. Brit. Ent. Haust.* iii. 25.

Noctua (Miselia) aprilina, Meig. Handb. 162, 3, pl. 12, f. 9; *Syst. Besch.* iii. 127, 81, pl. 102, f. 4.

Noctua runica, Wien. Verz. 70, 1.

Agriopsis aprilina, Boisd. Ind. Méth. 123, 980. *Herr.-Schæff. Eur. Schmett.* ii. 293, 347. *Guen. Noct.* ii. 59, 747.

a—c. England. Presented by H. Doubleday, Esq.

d—q. England. From Mr. Stephens' collection.

r—t. England.

v, u. Europe. From M. Becker's collection.

Genus 15. JASPIDEA.

Corpus robustum. Proboscis mediocriter longa. Palpi porrecti, pilosi; articulus 3us cylindricus, brevis. Antennæ simplices, corporis dimidio valde longiores. Thorax bicristatus. Abdomen cristatum, alas posticas triente superans. Pedes validi, tibiæ posticæ calcaribus quatuor mediocriter longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rectangulatæ, margine exteriori denticulato vix obliquo.

Plusia, p., Ochs.

Diacope, Hübner. Verz. Schmett. 204.

Abrostola, p., *Treit.*

Jaspidea, *Boisd. Ind. Méth.* 128; *Guen. Noct.* i. 59.

Body stout. Frontal tuft conspicuous. Proboscis moderately long. Palpi porrect, pilose; third joint cylindrical, about one-fourth of the length of the second. Antennæ simple, very much more than half the length of the body. Thorax with a double crest. Abdomen crested, extending nearly one-third of its length beyond the hind wings. Legs stout; hind tibiæ with four moderately long spurs. Wings moderately broad. Fore wings straight in front, rectangular at the tips, denticulated and hardly oblique along the exterior border.

1. JASPIDEA CELSIA.

Pomacea aut viridi-flava; palpi, cristæ thoracisque fasciæ duæ biarcuatæ fusca; abdomen subtestaceum; alæ anticæ macula basali guttam albam includente, fascia media subramosa, gutta exteriore fasciæque marginali subinterrupta fuscis; posticæ cinereo-fuscæ, ciliis albis.

———, *Engr. Pap. d'Eur.* 262, bis, a—d.

Phalæna-Bombyx celsia, *Linn. Faun. Suec.* 1141, pl. 2. *Gmel. ed. Syst. Nat.* i. 5, 2437, 77.

Bombyx celsia, *Fabr. Mant. Ins.* ii. 117, 96; *Ent. Syst.* iii. 1, 441, 105. *Oliv. Enc. Meth.* v. 64, 139. *Esp. Schmett.* iii. pl. 69, f. 2, 3. *Bork. Eur. Schmett.* iii. 431, 161.

Noctua celsia, *Hübner. Eur. Schmett. Noct.* pl. 15, f. 72. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 103, f. 6.

Diacope celsia, *Hübner. Verz. Schmett.* 204, 2053.

Plusia celsia, *Treit. Schmett.* v. 147, 5. *Eversm. Faun. Volg-Ural.* 315.

Noctua (Miselia) celsia, *Meig. Handb.* 180, 85; *Syst. Besch.* iii. 129, 85, pl. 103, f. 8, a, b.

Jaspidea celsia, *Boisd. Ind. Méth.* 128, 1035. *Guen. Noct.* ii. 60, 748.

Sweden. Austria. Styria. South Russia.

a. Europe. From M. Becker's collection.

b. Europe. From Mr. Milne's collection.

c. Hungary.

Genus 16. CHARIDEA.

Corpus robustum. Proboscis longa. Palpi breves, subascendentes; articulus 2us apice pilis squamosis munitus; 3us breviusculus, pyriformis. Antennæ articulis brevissime ciliatis. Thorax latus, squamosus, antice villosus. Abdomen *maris* longum, *fœm.* breviusculum cylindrico-conicum. Pedes breviusculi; tibiarum posticarum calcares breves. Alæ anticæ subdentatæ, apice subacuminatæ.

Charidea, *Guen. Noct.* ii. 60.

Body robust. Proboscis long. Palpi short, slightly ascending; second joint villose-squamose, its tip with a little fringe of squamose hairs; third short, pyriform. Joints of the antennæ furnished with little tufts of hairs, which are very short in the male, and still more short in the female. Thorax broad, squamose, villose in front. Abdomen long in the male, short and cylindric-conical in the female. Legs rather short; hind tibiæ with slender spines. Fore wings subdentate, slightly acute at the tips, with distinct marks; the two median lines forming a V.

1. CHARIDEA ELEGANTISSIMA.

Thorax carneo-cinereus, fusco fasciatus; abdomen maculis flavescentibus; alæ anticæ carneo-roseæ, ferrugineo nebulosæ, maculis basalibus duabus magnis duabusque parvis anterioribus, macula mediana angulata, orbiculari et reniformi viridescentibus albo-roseo lineatis, linea submarginali interrupta flavo-alba, intus lineolis antice nigris postice viridibus marginata; posticæ ochraceo-albæ, margine nigricante.

Charidea elegantissima, *Guen. Noct.* ii. 749, 61.

Cape.

2. CHARIDEA V. BRUNNEUM.

Mas et fœm. Roseo-cinerea; thorax lineis duabus lateralibus fuscis; alæ anticæ aurato fusco tinctæ, plaga media subtri-gona aurato fusca orbicularem et reniformem includente lineis medianis pallidis fusco marginatis inclusa, maculis pallido lineatis postice confluentibus macula parva trigona saturate fusca pallido lineata divisis, linea submarginali e punctis fuscis; posticæ pallido cinereæ, margine subfuscescente, ciliis linea flava divisis.

Charidea V. brunneum, *Guen. Noct.* ii. 62, 750.
Pondicherry.

Genus 17. PHLOGOPHORA.

Corpus robustum. Proboscis mediocriter longa. Palpi robusti, oblique ascendentes; articulus 3us minimus. Antennæ corporis dimidio longiores. Thorax (*P. meticulosa*) antice subcristatus, postice bicristatus. Abdomen alas posticas superans. Pedes longiusculi, sat graciles; tibiæ posticæ calcaribus quatuor longis. Alæ longiusculæ, sat angustæ aut mediocriter latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori plus minusve denticulato et obliquo. *Mas.*—Antennæ vix serratæ.

Phlogophora, p., *Ochs.*; *Treit.*; *Boisd.*; *Steph.*; *Guen. Ann. Soc. Ent. Fr.* vii. 220; *Noct.* ii. 62.

Phlogophora et Solenoptera, *Dup.*; *Herr.-Schæff.*

Trigonophora, p., *Hübner. Verz. Schmett.* 217.

Body stout. Proboscis moderately long. Palpi very stout, obliquely ascending; third joint extremely minute. Antennæ more than half the length of the body. Thorax (in *P. meticulosa*) with a small crest in front and a larger double crest behind. Abdomen extending somewhat beyond the hind wings. Legs rather long and slender; hind tibiæ with four long spurs. Wings rather long and narrow or moderately broad. Fore wings straight in front, somewhat rounded at the tips, more or less denticulated and moderately or very oblique along the exterior border. *Male.*—Antennæ very minutely serrated.

Europe.

1. PHLOGOPHORA SCITA.

Albida; capitis vertex et thorax pallide virides; alæ anticæ ex parte pallide virides, fascia lata antice furcata et interrupta saturate maculaque postica interiore viridibus, gutta subapicali nigra; posticæ fascia subobsoleta viridescente.

Noctua scita, *Hübner. Eur. Schmett. Noct.* pl. 14, f. 68; pl. 101, f. 475. *Dup. Hist. Nat. Lépid. Fr.* vi. 337, pl. 94, f. 1, 2. *Frey. Beitr.* ii. pl. 105.

Phlogophora scita, *Treit. Schmett.* v. 371, 2. *Boisd. Ind. Méth.* 965. *Guen. Noct.* ii. 63, 751.

Noctua (Phlogophora) scita, *Meig. Syst. Besch.* iii. 119, 65, pl. 100, f. 9.

Trigonophora scita, *Hübner. Verz. Schmett.* 217, 2162.

Solenoptera scita, *Herr.-Schäff. Eur. Schmett.* ii. 300, 365.

2. PHLOGOPHORA METICULOSA.

Testacea ; thorax lineis transversis undulatis fasciculisque cervinis ; alæ anticæ lituris costalibus nigricantibus, plaga postica interiore fasciæque antice furcata et maculam reniformem includente cervinis, linea exterior angulata fasciæque diffusa subcervinis, macula discali ciliisque ex parte nigro conspersis ; posticæ fasciis duabus fusciscentibus.

———, *Göed. Ins.* i. pl. 56. *List. Göed.* f. 44. *Albin, Ins.* pl. 13. *Réaumur. Ins.* i. pl. 8, f. 25, 26 ; pl. 14, f. 12, 13. *Merian, Ins. Eur.* pl. 24. *Roës. Ins.* iv. pl. 9. *Geoff. Ins. Par.* ii. 151, 84. *Deg. Ins.* i. pl. 5, f. 14 ; ii. 1, 427, 1. *Wilk. Pap.* iii. pl. 1, a, 3. *Engr. Pap. d'Eur.* 487, a—c, e, f. *Sepp. Ins.* pl. 21, f. 7.

Phalæna-Noctua meticulosa, *Linn. Faun. Suec.* 1164. *Scop. Ent. Carn.* 512. *Gmel. ed. Syst. Nat.* i. 5, 2557, 132.

Noctua meticulosa, *Wien. Verz.* 83, 1. *Fabr. Sp. Ins.* ii. 228, 100 ; *Mant. Ins.* ii. 163, 192 ; *Ent. Syst.* iii. 2, 83, 242. *Esp. Schmett.* iv. pl. 112, f. 5—7. *Bork. Eur. Schmett.* iv. 389. 159. *Hübner. Eur. Schmett. Noct.* pl. 14, f. 67. *Dup. Hist. Nat. Lép. Fr.* vi. 340, pl. 94, f. 3. *Donov. Brit. Ins.* iii. pl. 159. *Haw. Lep. Brit.* 251.

Noctua (Phlogophora) meticulosa, *Meig. Handb.* 161, 34 ; *Syst. Besch.* iii. 118, 64, pl. 100, f. 8.

Phlogophora meticulosa, *Treit. Schmett.* v. 373, 3. *Steph. Ill. Brit. Ent. Haust.* iii. 83. *Curt. Brit. Ent.* pl. 619. *Boisd. Ind. Méth.* 121, 966. *Guen. Noct.* ii. 64, 754.

Trigonophora meticulosa, *Hübner. Verz. Schmett.* 217, 2161.

Solenoptera meticulosa, *Herr.-Schäff. Eur. Schmett.* ii. 300, 364.

a—c. England. Presented by E. Doubleday, Esq.

d—n. England. From Mr. Stephens' collection.

o, p. England.

q—s. Europe. From M. Becker's collection.

t—u. Europe.

3. PHLOGOPHORA EMPYREA.

Ferruginea; thorax nigro varius; abdomen canescens, fasciculis lateralibus pallide rufescentibus; alæ anticæ purpurascens, plagis lineolisque transversis nigricantibus, litura discali sigmaformi albido sericea; posticæ canescentes, lunula discali margineque latissimo cinereis, ciliis pallidis.

———, *Engr. Pap. d' Eur.* 426, a, b.

Noctua empyrea, *Hüb. Eur. Schm.* *Noct.* pl. 13, f. 63; pl. 141, f. 646. *Dup. Hist. Nat. Léop. Fr.* v. 345, pl. 94, f. 4.

Trigonophora empyrea, *Hüb. Verz. Schm.* 217, 2165.

Bombyx flammea, *Esp. Schm.* iii. pl. 53.

Noctua flammea, *Bork. Eur. Schm.* iv. 460, 183.

Phlogophora empyrea, *Treit. Schm.* v. 381, 6. *Boisd. Ind. Méth.* 121, 964. *Guen. Noct.* ii. 66, 756. *Herr.-Schäff. Eur. Schm.* ii. 277, 293.

Noctua (Phlogophora) empyrea, *Meig. Syst. Besch.* iii. 120, 68, pl. 100, f. 7.

England. France. Italy.

a—d. Europe. From M. Becker's collection.

4. PHLOGOPHORA IODEA.

Ferruginea; thorax plagis duabus lateralibus fuscis; abdomen cervino-cinerascens; alæ anticæ plagis fuscis nigro marginatis, orbiculari et reniformi cervinis pallido nigroque marginatis, linea submarginali undulata pallida, lunulis marginalibus nigris angustis; posticæ pallide cinerascens, linea margineque fuscescentibus, ciliis cervinis.

Phlogophora iodea, *Guen. Ess.* 220; *Ind.* 245; *Noct.* ii. 66, 756. *Herr.-Schäff. Schm.* *Eur.* ii. 277, pl. 89, f. 457.

France. Italy.

a, b Europe. From M. Becker's collection.

North America.

5. PHLOGOPHORA ANODONTA.

Cervina; abdomen testaceum; alæ anticæ linea basali, gutta plaga maxina trigona discali, reniformi lineaque submarginali nigro-fuscis, guttis costalibus subapicalibus albis; posticæ testaceo-cinerascens, fasciis duabus fuscescentibus.

Phlogophora anodonta, *Guen. Noct.* ii. 63, 752.

a. New York. Presented by E. Doubleday, Esq.

6. PHLOGOPHORA IRIS.

Testacea; thorax lineis transversis ferrugineis; alæ anticæ angustæ, fascia latissima viridi-ferruginea fusco testaceo albidoque lineata, orbiculari et reniformi fuscescentibus albido marginatis, striga lata exteriore testacea, lineis exterioribus et submarginalibus ferrugineis fuscis albidisque, guttis costalibus subapicalibus albis; posticæ testacæ, lineæ fascia exteriore margineque ferrugineis, ciliis albidis.

Phlogophora Iris, *Guen. Noct.* ii. 64, 753.†

a, b. New York. Presented by E. Doubleday, Esq.

c. Orilla, West Canada. From Mr. Bush's collection.

7. PHLOGOPHORA PERICULOSA

Cervina; alæ anticæ lineæ basali, gutta, plaga maxima trigona, orbiculari et reniformi ex parte strigae apicali nigricantibus aut ferrugineis, margine exteriore cinereo-fuscescente, guttis costalibus subapicalibus albidis; posticæ lineæ margineque fuscescentibus.

Phlogophora periculosa, *Guen. Noct.* ii. 655, 755.

a—d. Trenton Falls, New York. Presented by E. Doubleday, Esq.

e. Newfoundland. Presented by W. C. St. John, Esq.

Genus 18. EUPLEXIA.

Corpus robustum, pilosum. Proboscis mediocriter longa. Palpi validi, pilosi, oblique ascendentes; articulus 3us longiconicus, minutus. Antennæ corporis dimidio longiores. Abdomen alæ posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriore denticulato, mediocriter obliquo. *Mas.*—Antennæ vix ciliatæ.

Phlogophora, p., *Treit.*; *Dup.*; *Boisd.*

Euplexia, *Steph.*; *Guen. Noct.* ii. 67.

Body stout, pilose. Proboscis moderately long. Palpi stout, pilose, obliquely ascending; third joint elongate-conical, about one-fourth of the length of the second. Antennæ rather more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, denticulated and moderately oblique along the exterior border. *Male*.—Antennæ very minutely ciliated.

Europe.

1. EUPLEXIA LUCIPARA.

Rubro-ferruginea; abdomen fuscescens; alæ anticæ fasciis variis incompletis atris, macula reniformi alba, fascia exteriori ceruina; posticæ fuscae, basi albidæ, lineis duabus angulosis nigro-fuscis albido ex parte marginatis.

———, *Engr. Pap. d'Eur.* 491, a—d. *Sepp, Ins.* iv. pl. 19.

Phalæna-Noctua lucipara, *Linn. Faun. Suec.* 1201; *Syst. Nat.* 857, 187. *Gmel. ed. Syst. Nat.* i. 5, 2576, 187.

Noctua lucipara, *Wien. Verz.* 84, 3. *Fabr. Sp. Ins.* ii. 233, 121; *Mant. Ins.* ii. 170, 235; *Ent. Syst.* iii. 2, 294. *Esp. Schm.* iv. pl. 154, f. 1—4. *Bork. Eur. Schm.* iv. 373, 153. *Haw. Lep. Brit.* 138. *Donov. Brit. Ins.* vi. pl. 230. *Hübner. Eur. Schm.* *Noct.* pl. 11, f. 55. *Dup. Hist. Nat. Léop. Fr.* vi. pl. 94, f. 5. *Knock, Beit.* ii. pl. 1, f. 4—7. *Frey. Beit.* i. pl. 82.

Phlogophora lucipara, *Treits. Schm.* v. 377, 4. *Boisd. Ind. Méth.* 121, 963. *Herr.-Schæff. Eur. Schm.* ii. 277, 295.

Trigonophora lucipara, *Hübner. Verz. Schm.* 217, 2164.

Noctua (Phlogophora) lucipara, *Meig. Handb.* 161, 35; *Syst. Besch.* iii. 119, 66, pl. 101, f. 1.

Euplexia lucipara, *Steph. Ill. Brit. Ent. Haust.* iii. 1. *Guen. Noct.* ii. 68, 758.

a—i. England. From Mr. Stephens' collection.

j, l. England. From Mr. Stevens' collection.

m—p. England.

q. Scotland. From Mr. Foxcroft's collection.

r, s. Europe. From M. Becker's collection.

t, v. Germany.

u—aa. Trenton Falls, New York. Presented by E. Doubleday, Esq.

Australia.

2. EUPLEXIA EMERGENS.

Mas. *Ferrugineo-fusca*; abdomen obscure cinereum, *cristis nigricantibus*; *alæ anticæ area media margineque exteriore obscurioribus, lineis nigris undulatis, linea submarginali ferruginea, strigis marginalibus atris, maculis nigro marginatis, reniformi testacea*; *posticæ subcupreæ, basi ciliisque cinereis subæqualibus*.

Male. Ferruginous-brown. Abdomen dark cinereous, with blackish crests. Fore wings with black undulating lines, blackish between the median lines and along the exterior border, between which and the ferruginous submarginal line there are deep black streaks; orbicular and reniform spots with black borders and of nearly equal size and shape, the latter mostly testaceous. Hind wings somewhat cupreous; base and ciliæ cinereous. Length of the body 6 lines; of the wings 14 lines.

a. Tasmania. Presented by the Rev. Augustus Beaufort.

3. EUPLEXIA CONFUNDENS.

Mas et fœm. *Ferruginea*; thorax nigro conspersus; abdomen cinereum, *cristis ferrugineis*; *alæ anticæ lineis transversis nigricantibus indeterminatis, pallido marginatis, lituris costalibus lunulisque marginalibus nigris, disco margineque exteriore nigricante suffusis, orbiculari et reniformi subæqualibus ex parte nigro marginatis, striga obliqua subapicali pallide ferruginea*; *posticæ subcupreæ, basi cinereæ, ciliis pallide ferrugineis*. Mas.—*Reniformis ex parte alba*. Fœm.—*Reniformis ex parte testacea*.

Male and female. Ferruginous. Thorax sprinkled with black. Abdomen cinereous; crests ferruginous. Fore wings with the transverse lines blackish, indistinct and irregular, and with paler borders; costal marks and marginal lunules black; a blackish tinge in the disk and along the exterior border; orbicular and reniform spots partly bordered with black, nearly equal in size and shape; a pale ferruginous oblique subapical streak. Hind wings somewhat cupreous, cinereous at the base; ciliæ pale ferruginous. *Male*.—Reniform spot partly white. Abdomen bordered with ferruginous hairs. *Female*.—Reniform spot partly testaceous. Length of the body 6 lines; of the wings 14 lines.

a. Tasmania. Presented by R. Butler, Esq.

b. Tasmania. Presented by E. Doubleday, Esq.

4. EUPLEXIA EXCLUSA.

Ferruginea; palpi oblique ascendentes, articulo 3o longiusculo; abdomen cinereum, cristis ferrugineis; alæ anticæ apud medium obscuriores, lineis undulatis testaceis nigrisque, maculis testaceo marginatis, orbiculari obliqua, reniformi apud medium flava, striga antica apud lineam submarginalem testacea, margine exteriori nigro-cinereo strigis atris, guttis costalibus subapicalibus albidis; posticæ cupreo-fuscæ.

Ferruginous. Palpi obliquely ascending; third joint lanceolate, one-third of the length of the second. Abdomen cinereous, with ferruginous crests. Fore wings with undulating testaceous and black lines, the latter very indistinct; middle part dark ferruginous; discal spots with testaceous borders; orbicular oblique; reniform with a yellow disk; a testaceous streak along the fore part of the inner side of the submarginal line; space beyond the submarginal blackish cinereous, with deep black streaks; some whitish costal subapical dots. Hind wings cupreous-brown. Length of the body 6—6½ lines; of the wings 14—15 lines.

a—c. Tasmania. Presented by R. Butler, Esq.

5. EUPLEXIA INDOCILIS.

Nigricans, *E. exclusæ* structura; abdomen cinereum, cristis nigricantibus; alæ anticæ lineis undulatis atris, exterioribus quoque necnon striga lata submarginali testaceis, guttis costalibus subapicalibus albidis; posticæ cupreo-fuscæ, aut albidæ cupreo-fusco late marginatæ.

Blackish, like *E. exclusa* in structure. Abdomen cinereous, with blackish crests. Fore wings with a testaceous mark on the reniform spot, undulating lines and borders of the spots deep black; exterior lines also testaceous; a broad transverse testaceous streak near the exterior border; some whitish costal subapical dots. Hind wings whitish, with broad cupreous-brown borders, or nearly wholly cupreous-brown. Length of the body 6—7 lines; of the wings 14—16 lines.

a. Tasmania. Presented by E. Doubleday, Esq.

b. Swan River. Presented by Sir J. Richardson.

Genus 19. HETEROCHROMA.

Corpus sat validum. Proboscis medioériter longa. Palpi longi, ascendentes, frontem superantes; articulus 2us subinflatus; 3us gracilis, linearis, 2i triente non brevior. Antennæ robustæ, cylindricæ, corporis dimidio multo longiores, ciliis nullis. Thorax villosus squamosus, subhirsutus, bicristatus. Abdomen cristatum, alas posticas plus triente superans. Pedes breves, validi; tibiæ posticæ calcaribus robustis. Alæ latiusculæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriori vix obliquo.

Heterochroma, *Guen. Noct.* ii. 69.

Body moderately stout. Proboscis moderately long. Palpi long, ascending, extending above the front; second joint slightly tumid; third slender, linear, full one-third of the length of the second. Antennæ robust, cylindrical, without any ciliæ, much more than half the length of the body. Thorax villose-squamos, somewhat hirsute, with two crests. Abdomen crested, extending for more than one-third of its length beyond the hind wings. Legs short, robust; hind tibiæ with stout spurs. Wings rather broad. Fore wings straight in front, somewhat rounded at the tips, hardly oblique along the exterior border.

South America.

1. HETEROCHROMA ERIPIOIDES.

Mas et fœm. *Nigro-fusca*; palporum articulus 3us 2o vix brevior; abdomen longissimum; alæ anticæ violaceo-cinereo fuscoque variæ, apice rotundatæ, margine exteriori recto denticulato, dente apicali acuta, fascia fere basali pallida puncto squamoso candido postice terminata, macula magna media postice saturate rufa, claviformi lituraque altera nigris, orbiculari et reniformi indistinctis subæqualibus, litura magna obliqua maculaque apicalibus ochraceis; posticæ nigricantes, basi ochraceæ.

Heterochroma eriopioides, *Guen. Noct.* ii. 69, 759; iii. pl. 8, f. 8.
Brazil.

2. HETEROCHROMA ? ACHATIODES.

Mas. *Rosea*; palporum articulus 2us arcuatus, 3us rectus filiformis; alæ anticæ ochraceo variæ, lineis duabus medianis sinuatis interruptis nigris apud costam dilatatis, linea submarginali obsoleta, orbiculari et reniformi contiguâ nigris roseo variis, punctis marginalibus nigris, ciliis flavescens-roseis; posticæ subnigræ ciliis flavo-roseis, subtus pallide flavescens.

Heterochroma achatoides, Guen. Noct. ii. 70, 761.

Brazil.

Country unknown.

3. HETEROCHROMA HADENOIDES.

Fœm. *Rubro-fusca*; thorax crassus, convexus, valde squamosus; abdomen breviusculum, tricristatum, subtus subroseum lineis lateralibus fuscis; alæ anticæ dentatæ, squamosæ, violaceo subinctæ, lineis maculisque obsoletis, umbra mediana obscuriore velutina, margine exteriori obscuriore ex parte cinereo, strigis lanceolatis punctisque marginalibus, litura squamosa basali postica viridescens; posticæ fuscæ, ciliis flavescens-fusco inquinatis.

Heterochroma Hadenoides, Guen. Noct. ii. 70, 760.

Genus 20. POLYPHLENIS.

Corpus sat validum. Proboscis breviuscula. Palpi validi, pilosi, oblique ascendentes; articulus 3us cylindricus, 2i triente non brevior. Antennæ graciles, simplices, corporis dimidio multo longiores. Thorax et abdomen subcristata, hoc abdomen paullo superans. Pedes mediocriter validi; tibiæ posticæ calcaribus longis. Alæ latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subdenticulato vix obliquo.

Thalophila, p., Hübn. Verz. Schmett. 208.

Polia, p., Ochs.

Mithymna, p., Treit.

Polyphlenis, Boisd. Ind. Méth. 128; Dup.; Guen. Noct. ii. 71.

Body moderately stout. Proboscis rather short. Palpi stout, pilose, obliquely ascending; third joint cylindrical, full one-third of

the length of the second. Antennæ slender, simple, much more than half the length of the body. Thorax and abdomen slightly crested, the latter extending a little beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Wings broad. Fore wings straight in front, rounded at the tips, slightly denticulated, and very slightly convex and oblique along the exterior border.

Europe.

1. POLYPHLÆNIS SERICINA.

Viridis; thorax nigro varius; abdomen cinereum; alæ anticæ lineis transversis undulatis incompletis strigisque duabus posticis submarginalibus nigris, maculis ex parte minima nigro marginatis, fascia exterior angulosa albida nigro marginata; posticæ luteæ, macula discali margineque lato nigricantibus, ciliis pallidis.

Var. Viridi-cinerea; abdomen cinereum, vitta dorsali nigra; alæ anticæ nebulosæ, lineis transversis angulatis albis nigro marginatis.

—————, *Engr. Pap. d'Eur.* 431, a—c.

Noctua sericina, *Lang. Verz.* 973. *Esp. Schmett.* iv. 183, pl. 108, f. 4. *Bork. Eur. Schmett.* iv. 119, 47.

Noctua viridis, *DeVill. Ins.* iii.

Noctua linogrisea, *Hübner. Eur. Schmett. Noct.* pl. 4, X.

Polia prospicua, *Treit. Schmett.* v. 59, 19.

Noctua prospicua, *Dup. Hist. Nat. Lép. Fr.* vi. pl. 97, f. 4.

Noctua (Miselia) prospicua, *Meig. Syst. Besch.* iii. 128, 83, pl. 102, f. 9.

Noctua prospicua, *Bork. Eur. Schmett.* iv. 122, 49. *Hübner. Eur. Schmett. Noct.* pl. 23, f. 108. *Dup. Hist. Nat. Lép. Fr.* vi. pl. 97, f. 4.

Polyphlænis nebulifera, *Guen. Ind.* 245.

Polyphlænis sericina, *Boisd. Ind. Méth.* 128, 1033. *Guen. Noct.* ii. 71, 762.

Thalpophila prospicua, *Hübner. Verz. Schmett.* ii. 208, 2079.

a, b. Europe. From M. Becker's collection.

2. POLYPHLÆNIS? ALLIACEA.

P. prospicua fere duplo major ; alæ anticæ latiores, virides, albido adpersæ, macula reniformi nivea magna nigro-cincta ; posticæ fulvæ, nigro marginatæ ; quatuor subtus cinereæ, posticæ apud angulum interiorem fulvescentes.

Polia alliacea, Germ. Faun. Herr.-Schæff. Schmett. Eur. ii. 257.

Polyphlenis xanthochloris, Boisd. Ind. Méth. 128, 1034. Guen.

Ind. 245. Herr.-Schæff. Schmett. Eur. ii. pl. 16, f. 74, 75.

Polyphlænis alliacea, Guen. Noct. ii. 73, 763.

Sicily.

North America.

3. POLYPHLÆNIS HERBACEA.

Mas et fœm. Læte viridis ; alæ anticæ lituris nigris, lineis medianis undulatis duplicatis, linea submarginali fere obsoleta, spatio medio nigricante, orbiculari et reniformi nigro marginatis ; posticæ rufo-fusæ, subæneæ.

Polyphlænis herbacea, Guen. Noct. iii. 73, 764.

North America.

Genus 21. EUROIS.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, porrecti, pilosi ; articulus 3us minimus. Antennæ corporis dimidio paullo longiores. Thorax subcristatus. Abdomen cristatum, alas posticas paullo aut triente superans. Pedes validi ; tibiæ posticæ calcaribus quatuor longis. Alæ longiusculæ, mediocriter latæ ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subobliquo aut sat obliquo. Mas. — Antennæ subciliatæ, aut vix ciliatæ.

Aplecta, Guen. Ann. Soc. Ent. Fr. vii. 217 ; Noct. ii. 74.

Polia, p., et *Phlogophora*, p., Ochs.

Polia, p., Treit. ; Boisd. ; Steph. ; Curt.

Eurois, Hübn. Verz. Schmett. 217.

Body stout. Proboscis moderately long. Palpi stout, porrect, pilose ; third joint very minute, not more than one-sixth of the length of the second. Antennæ a little more than half the length of the body. Thorax slightly crested. Abdomen distinctly crested,

extending a little or full one-third of its length beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad, rather long. Fore wings straight in front, rounded at the tips, denticulated and moderately or slightly oblique along the exterior border. *Male*.—Antennæ more or less minutely ciliated.

- A. Alæ anticæ viridescentes. - - herbida, *Wien. Verz.*
- B. Alæ anticæ non viridescentes.
 - A. Alæ anticæ cinerascens aut fuscescens.
 - a. Alæ anticæ maculis conspicuis. - - occulta, *Linn.*
 - b. Alæ anticæ maculis vix conspicuis. - advena, *Wien. Verz.*
 - B. Alæ anticæ albidæ. - - - - - nebulosa, *Hübfn.*
 - C. Alæ anticæ ferrugineo aut ochraceo variæ.
 - a. Alæ anticæ ferrugineo variæ. - - tincta, *Brahm.*
 - b. Alæ anticæ ochraceo variæ.
 - a. Minor, obscurior. - - - - Schœnnherri, *Boisd.*
 - b. Major, pallidior. - - - - speciosa, *Hübfn.*

1. EUROIS HERBIDA.

Fusco-viridis; caput et thorax nigro alboque varia; abdomen et alæ posticæ cinereo-fusciscentia; alæ anticæ nigro conspersæ, annulis duabus lineisque transversis undulatis albis nigro marginatis.

- , *Engr. Pap. d'Eur.* 465, a, b.
- Noctua herbida, *Wien. Verz.* O, 10, 11. *Hübfn. Eur. Schm.* Noct. f. 76, 505. *Dup. Hist. Nat. Léop. Fr.* vi. 395, pl. 97. *Frey. Alt. Beit.* pl. 40, f. 131; *Ent. Zeit. Stett.* ii. 95.
- Noctua egregia, *Esp. Schm.* pl. 119, f. 7; 188. *View.* 116. *Lang.* 918.
- Noctua prasina, *Wien. Verz.* O, 11. *Bork. Eur. Schm.* iv. 175. *Fabr. Ent. Syst.* iii. 2, 281.
- Noctua jaspidea, *Bork. Eur. Schm.* 176.
- Noctua mixta, *Haw. Lep. Brit.* 74.
- Polia herbida, *Treit. Schm.* ii. 56. *Curtis, Brit. Ent.* pl. 248. *Steph. Ill. Brit. Ent. Haust.* iii. 30, pl. 27. *Herr.-Schæff. Schm.* Eur. ii. 263, 247.
- Aplecta herbida, *Guen. Ind.* 245; *Noct.* ii. 75, 765. *Boisd. Ind. Méth.* 123, 979.
- Eurois herbida, *Hübfn. Verz. Schm.* 218, 2175.
- Europe. North America.

- a, b.* England. Presented by Mr. Muff.
c—q. England. From Mr. Stephens' collection.
r, s. England.
t—w. Europe. From M. Becker's collection.
x. Europe.
y—bb. Trenton Falls, New York. Presented by E. Doubleday, Esq.
cc. Orilla, West Canada. From Mr. Bush's collection.

2. EUROIS OCCULTA.

Cinereo-fusca, albo conspersa; abdomen murinum; alæ anticæ plaga discali nigro-fusca, maculis conspicuis, extus albidæ fusco conspersæ strigis lanceolatis nigris; posticæ murinæ, albo ciliatæ.

- , *Engr. Pap. d' Eur.* 336, a—c.
Phalæna-Noctua occulta, Linn. Faun. Suec. 318, 1203. *Clerck.* pl. 1, f. 6. *Rossi, Mant.* 400.
Noctua occulta, Hübn. Eur. Schmett. Noct. pl. 17, f. 79. *Haw. Lep. Brit.* 71. *Dup. Hist. Nat. Lép. Fr.* vi. 386, pl. 97. *Freyer, Alt. Beit.* pl. 10, 30; *Ent. Zeit. Stett.* ii. 94.
Noctua trimaculosa, Esp. Schmett. iv. pl. 131, f. 5.
Noctua (Hadena) occulta, Meig. Syst. Besch. iii. 107, 46, pl. 100, f. 3.
Eurois occulta, Hübn. Verz. Schmett. 218, 2180.
Polia occulta, Treit. Schmett. v. 52, 17. *Steph. Ill. Brit. Ent. Haust.* iii. 29. *Curt. Brit. Ent.* pl. 248. *Herr.-Schæff. Eur. Schmett.* ii. 263, 246.
Aplecta occulta, Guen. Ind. 245; *Noct.* ii. 76, 766. *Boisd. Ind. Méth.* 123, 977.
a—e. England. From Mr. Stephens' collection.
f. England.
g—i. Scotland. From Mr. Foxcroft's collection.
j. Scotland. From Mr. Stevens' collection.
k—p. Europe. From M. Becker's collection.
q. Orilla, West Canada. From Mr. Bush's collection.

Var. Fœm. *Cinerea; alæ anticæ lineis transversis nigro-cinereis undulatis indistinctis ex parte albidò marginatis, linea submarginali angulosa, lunulis marginalibus nigris, maculis nigricante submarginatis, orbiculari albidà; posticæ fusco-cinereæ, ciliis albis.*

Female. Cinereous. Fore wings with the transverse lines blackish gray, undulating, indistinct, their borders partly whitish; submarginal line zigzag, forming two more distinct angles at a little in front of the middle; marginal lunules black; discal spots large, with indistinct blackish borders; orbicular oblique, whitish. Hind wings brownish cinereous, with white ciliæ. Length of the body 11 lines; of the wings 26 lines.

r. Orilla, West Canada. From Mr. Bush's collection.

3. EUROIS NEBULOSA.

Albida; capitis fascia, cristæ, thoracisque fasciæ et vittæ nigra; abdomen pallide cinerascens, basi albidum; alæ anticæ nebulis pallide fusciscentibus, maculis duobus discalibus, lineis transversis undulatis et lanceolatis lunulisque marginalibus nigris; posticæ linea discali margineque cinerascens.

—————, *Engr. Pap. d'Eur.* 470, a—c.

Noctua nebulosa, *Hübfn. Berl. Mag.* iii. 418. *Frey. Beit.* pl. 52.

Noctua polyodon? *Wien. Verz.* 72, 1. *Fabr. Sp. Ins.* ii. 237, 136; *Mant. Ins.* ii. 178, 276; *Ent. Syst.* iii. 2, 114, 343.

Noctua plebeia, *Hübfn. Eur. Schm.* *Noct.* pl. 16, f. 78. *Sepp. Ins.* ii. pl. 27. *Dup. Hist. Nat. Lép. Fr.* vi. 382, pl. 97, f. 1.

Noctua Thapsi, *Brahm, Ins.* ii. 135. *Bork. Eur. Schm.* iv. 567, 234.

Noctua bimaculosa, *Esp. Schm.* iv. pl. 132, f. 1, 2.

Noctua grandis, *Donov. Brit. Ins.* x. pl. 34. *Haw. Lep. Brit.* 79.

Noctua (Hadena) nebulosa, *Meig. Handb.* 164, 40; *Syst. Besch.* iii. 106, 44, pl. 100, f. 2.

Polia nebulosa, *Treit. Schm.* v. 48, 16. *Herr.-Schæff. Eur. Schm.* ii. 264, 248.

Polia bimaculosa, *Steph. Ill. Brit. Ent. Haust.* iii. 28.

Aplecta nebulosa, *Guen. Ind.* 245; *Noct.* ii. 77, 770. *Boisd. Ind. Méth.* 123, 976.

Eurois nebulosa, *Hübfn. Verz. Schm.* 218, 2184.

a—n. England. From Mr. Stephens' collection.

o—q. England. From Mr. Stevens' collection.

r, s. Europe. From M. Becker's collection.

t. Europe.

v, u. France.

4. EUROIS SCHÖENNHERRI.

Nigro-cinerea ; antennæ maris submoniliformes, fasciculis abbreviatis æqualibus ; abdomen non cristatum ; alæ anticæ ochraceo subtinctæ, lineis duabus medianis maculisque albis, his nigro marginatis, reniformi nigro notata, claviformi parva nigra annuliformi, linea submarginali vix conspicua punctis marginalibus nigris ; posticæ ochraceo-albæ, cinereo inquinatæ, lunula discali, linea mediana sinuata et dentata umbræque submarginali vagis nigris, strigis marginalibus distinctioribus.

Aplecta Schöenherri, Boisd. MSS. Guen. Noct. ii. 79, 773.
Lapland.

5. EUROIS SPECIOSA.

Testacea ; palpi nigri, articuli 2i apice 3oque ochraceis ; thorax nigris variis ; abdomen fuscens ; alæ anticæ lineis transversis interruptis variis albis et nigris, orbiculari et reniformi ex parte albo marginatis ; posticæ pallide cinerascens, macula discali fasciisque duabus fuscis.

Noctua speciosa, Hübn. Eur. Schmett. Noct. f. 47, 1.

Eurois speciosa, Hübn. Verz. Schmett. 218, 2177.

Aplecta speciosa, Guen. Ind. 245 ; Noct. ii. 80, 774. Boisd. Ind.

Méth. 122, 973. Dup. Hist. Nat. Léop. Fr. Suppl. iii. 594, pl. 40.

France. Switzerland.

6. EUROIS TINCTA.

Ferrugineo-cinerea ; thorax nigro variis ; abdomen fuscens ; alæ anticæ canescentes, ex parte ferrugineæ, lineis transversis undulatis nigris, fascia exteriore conspicua angulata albida nigro signata, maculis albidis nigroque marginatis ; posticæ fuscens, ciliis albidis.

———, Engr. Pap. d'Eur. 467, a—c.

Noctua tincta, Brahm, Ins. 274 ; Scriba, Ins. iii. 255, pl. 18, f. 2.

Bork. Eur. Schmett. iv. 543, 219. Dup. Hist. Nat. Léop. Fr.

vi. 389, pl. 96, f. 3. Frey. Beit. iv. pl. 293.

- Noctua occulta, *Fabr. Mant. Ins.* ii. 166, 212; *Ent. Syst.* iii. 2, 88, 263. *Bork. Eur. Schmett.* iv. 541, 218.
- Phalæna-Noctua occulta, *Gmel. ed. Syst. Nat.* i. 5, 2564, 147.
- Noctua trimaculosa, *Esp. Schmett.* iv. pl. 131, f. 5.
- Noctua hepatica, *Hübner. Eur. Schmett. Noct.* pl. 16, f. 77.
- Noctua argentina, *Haw. Lep. Brit.* 72.
- Eurois tincta, *Hübner. Verz. Schmett.* 218, 2178.
- Noctua (Hadena) tincta, *Meig. Syst. Besch.* iii. 107, 45, pl. 100, f. 4.
- Polia tincta, *Steph. Ill. Brit. Ent. Haust.* iii. 29. *Herr.-Schæff. Eur. Schmett.* ii. 264, 249.
- Aplecta tincta, *Guen. Ind.* 245; *Noct.* ii. 80, 775. *Boisd. Ind. Méth.* 123, 975.
- a—j. England. From Mr. Stephens' collection.
- k, l. England.
- m. Scotland. From Mr. Foxcroft's collection.
- n—p. Europe. From M. Becker's collection.
- q—s. Germany.

7. EUROIS ADVENA.

Cinereo-fuscescens; alæ anticæ fasciis undulatis maculisque pallidioribus et obscurioribus vix conspicuis, linea submarginali fusco notata; posticæ pallidiores, ciliis albidis.

- , *Engr. Pap. d' Eur.* 468, a—c.
- Noctua advena? *Wien. Verz.* 77, 11. *Fabr. Mant. Ins.* ii. 183, 304; *Ent. Syst.* iii. 2, 375. *Esp. Schmett.* iv. pl. 178, f. 4, 5. *Bork. Eur. Schmett.* iv. 258. *Hübner. Eur. Schmett. Noct.* f. 81. *Haw. Lep. Brit.* 76. *Dup. Hist. Nat. Léop. Fr.* vi. 392, pl. 96.
- Phalæna-Noctua advena, *Gmel. ed. Syst. Nat.* i. 5, 2567, I, 142.
- Noctua nitens, *Haw. Lep. Brit.* 77.
- Polia nitens, *Steph. Ill. Brit. Ent. Haust.* iii. 28.
- Eurois advena, *Hübner. Verz. Schmett.* 218, 2179.
- Euplecta advena, *Guen. Ind.* 245; *Noct.* ii. 81, 776; *Boisd. Ind. Méth.* 122, 974.
- Polia advena, *Steph. Ill. Brit. Ent. Haust.* iii. 28. *Herr.-Schæff. Eur. Schmett.* ii. 264, 250.
- a—h. England. From Mr. Stephens' collection.
- i—l. England.
- m—p. Europe. From M. Becker's collection.

North America.

8. EUROIS IMPLICATA.

Alæ anticæ nigricantes, strigis duabus albidis dentatis, maculis ordinariis nigro circumcinctis, orbiculari albida, reniformi cinerea; posticæ fuliginosæ, fimbria alba.

Hadena implicata, Lefebvre, *Ann. Soc. Ent. Fr.* v. 394, pl. 10, f. 4. *Zett. Ins. Lapp.* 940, 16.

Aplecta implicata, Guen. *Ind.* 245; *Noct.* ii. 76, 767. *Boisd. Ind. Méth.* 9, 78. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 592, pl. 49.

Greenland.

9. EUROIS IMBRIFERA.

Cinerea; thorax nigro conspersus; alæ anticæ latiusculæ, vix elongatæ, nigro conspersæ, fasciis incompletis fusciscentibus, lineis transversis duplicatis undulatis albidis nigro marginatis, maculis albidis ex parte nigro marginatis, linea submarginali undulata, lunulis marginalibus nigris; posticæ fusco-cinereæ, linea margineque pallidioribus.

Aplecta imbrifera, Guen. *Noct.* ii. 76, 768.

a—c. New York. Presented by E. Doubleday, Esq.

d. Orilla, West Canada. From Mr. Bush's collection.

10. EUROIS NIMBOSA.

Albo-cinerea; thorax fascia antica undulata vittisque duabus lateralibus nigris; alæ anticæ apud costam obscuriores, lineis undulatis aut angulosis albidis incompletis nigro marginatis, orbiculari et reniformi magnis nigro marginatis, lunulis marginalibus nigris; posticæ cinereæ, fascia diffusa albida, ciliis albis.

Aplecta nimbosa, Guen. *Noct.* ii. 77, 769.

a—f. Trenton Falls, New York. Presented by E. Doubleday, Esq.

11. EUROIS LATEX.

Pallide cinerea ; alæ anticæ lineis fuscis incompletis indistinctis, macula costali fere basali fusca, orbiculari et reniformi magnis contiguis ex parte nigro marginatis, illa albida, strigis exterioribus lunulisque marginalibus nigris ; posticæ cinereæ, ciliis pallidis.

Aplecta latex, *Guen. Noct.* ii. 78, 771.

a. New York. Presented by E. Doubleday, Esq.

12. EUROIS CONDITA.

Cinerea ; abdomen pallidum ; alæ anticæ latiusculæ, non elongatæ, nigro conspersæ, orbiculari et reniformi magnis remotis maculaque basali albidis, lineis albidis angulosis nigro marginatis, fascia exteriori fusciscenti, lunulis marginalibus nigris ; posticæ cinerascens, lineis duabus discalibus obscurioribus.

Aplecta condita, *Guen. Noct.* ii. 78, 772.

a. New York. Presented by E. Doubleday, Esq.

South America.

13. EUROIS? TULLIA.

Viridescens ; abdomen cinereum ; alæ anticæ lineis fuscis albido marginatis, striga lata discali cinerea, orbiculari et reniformi nigro marginatis, macula costali subapicali nigra ; posticæ rufescentes, margine latissimo obscuriore.

Phalæna-Noctua Tullia, *Cram. Pap. Exot.* iv. 242, pl. 400, f. E.
Eurois Tullia, *Hübner. Verz. Schm.* 218, 2176.

Surinam.

Africa.

14. EUROIS POSTVENTA.

Fœm. Cinerea ; thoracis discus rubidus, alæ anticæ strigis basilibus, fasciis duabus guttularibus subapicalibus, maculis duabus discalibus liturisque costalibus nigris, plaga discali rubiginosa ; posticæ canescentes, macula discali guttisque submarginalibus nigris.

Eurois postventa (Noctua genuina, Achatia communis), Geyer, *Zeit. Samml. Exot. Schmett.* 18, 433, f. 865, 866.

South Africa.

Asia.

15. EUROIS EXPRESSA.

Mas. Cinereo-olivacea; palpi articulo 3o cylindrico longiusculo; antennæ subpectinatae; thorax nigro conspersus; alæ antice lineis transversis angulosis nigricantibus et pallidis, macula orbiculari subrotunda, reniformi apud medium arcata, ciliis albis cinereo notatis; posticæ albo-cinereæ, lineis duabus maculaque discali obscurioribus.

Polia expressa, Lederer, *Verhandl. Zool. Botan. Verien. in Wien.* v. 109, pl. 1, f. 8.

Altai, Siberia.

16. EUROIS? AURIPLENA.

Fœm. Fusca, flavo varia; abdomen fuscescente-cinereum; alæ anticæ lineis transversis nigricantibus undulatis subinterruptis, signatura apud maculas fasciæque exteriore diffusis canis nitentibus, orbiculari parva rotunda, macula postica alba; posticæ sordide albidæ, margine latissimo fusco.

Female. Brown. Head and thorax partly yellow. Third joint of the palpi very minute. Antennæ tawny. Abdomen brownish cinereous, extending a little beyond the hind wings. Fore wings yellow about the base and on the borders of the discal spots, and on the submarginal line and the adjoining parts of the veins; transverse lines blackish, undulating, slightly interrupted; a mark about the spots, and an exterior band diffuse, shining, hoary; a white spot behind the orbicular and reniform spots, of which the former is round and hardly half the size of the latter. Hind wings dingy whitish, with very broad brown borders. Length of the body 9 lines; of the wings 22 lines.

a. Ceylon. Presented by R. Templeton, Esq.

17. EUROIS? CRASSIPENNIS.

Sordide testacea; caput pallide luteum; thorax antice cervinus; tarsi nigro fasciati; alæ anticæ ferrugineo-fuscæ, validæ, fasciis angulosis testaceis fusco marginatis, apud marginem exteriorem omnino testaceæ, lunulis marginalibus nigris, maculis discalibus subobsoletis; posticæ cinereæ, lunulis marginalibus nigris, ciliis pallide testaceis.

Dingy testaceous. Head and palpi pale luteous, the latter longer than in the European species of this genus. Thorax fawn-colour in front. Tarsi with black bands. Fore wings ferruginous-brown, stout, with zigzag testaceous dark brown-bordered bands, wholly testaceous towards the exterior border; marginal lunules black; discal spots very indistinct. Hind wings cinereous, with black marginal lunules and pale testaceous ciliæ. Length of the body 8 lines; of the wings 20 lines.

a. Silhet. From the Rev. J. Stainforth's collection.

Genus 22. HADENA.

Corpus robustum, hirsutum. Proboscis mediocriter longa. Palpi validi, pilosi, ascendentes; articulus 3us cylindricus, 2i triente paullo brevior. Abdomen alas posticas vix aut triente superans. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ mediocriter latæ; anticæ apud costam rectæ aut vix convexæ, apice subacutæ aut subrotundatæ, margine exteriore subdenticulato mediocriter obliquo. *Mas.*—Antennæ vix ciliatæ.

Hadena, *Guen. Ann. Soc. Ent. Fr.* vii. 213; *Noct.* ii. 81.

Hadena et Mamestra, *Treit.*; *Boisd.*

Astrapetis, p., Dichonia, p., Æthria, p., Diataraxia, p., Trachea, Mamestra, p. et Lithomoia, p., *Hübner. Verz. Schmett.*

Hadena et Hyppa, *Duponch.*

Polia, p., et Hyppa, *Herr.-Schæff.*

Body stout, somewhat hirsute. Proboscis moderately long. Palpi stout, pilose, ascending, third joint cylindrical, rather less than one-third of the length of the second. Antennæ more than half the length of the body. Abdomen extending hardly or nearly one-third of its length beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad. Fore wings straight or

hardly convex in front, slightly acute or somewhat rounded at the tips; slightly denticulated and moderately oblique along the exterior border. *Male*.—Antennæ very minutely ciliated.

Europe.

Group 1.

Statura magna. Antennæ laminis distinctis, moniliformes aut dentatæ tantum usque ad apices. Alæ anticæ macula nulla bidentata.

Species of large size. Antennæ furnished with distinct laminæ, moniliform, or only dentate to the tips. Fore wings without a bidentate mark.

1. HADENA AMICA.

Cinereo-ferruginea; alæ anticæ purpureo-ferrugineæ, lineis duabus transversis angulatis albidis plagas duas nigras maculasque albido marginatas includentibus, fascia marginali glaucescente fusca atro guttata; posticæ fuscæ.

Hadena amica, *Treit. Schmett.* v. 332. *Eversm. Faun. Volg-Ural.* 224. *Guen. Ind.* 244: *Noct.* ii. 83, 778. *Boisd. Ind. Meth.* 119, 941. *Dup. Hist. Nat. Léop. Fr. Suppl.* 224, pl. 21. *Herr.-Schæff. Schmett. Eur.* ii. pl. 12, f. 56.

Noctua amica, *Frey. Beit.* iii. 279, f. 4.

North Europe.

2. HADENA STIGMATICA.

Fusca; alæ anticæ strigis lanceolatis guttisque marginalibus nigris, linea submarginali pallida, orbiculari valde obliqua, reniformi albo signata; posticæ cinereæ, basi fasciaque pallidioribus.

Hadena stigmatica, *Friv. Guen. Noct.* ii. 83, 779.

Hadena leuconota, *Herr.-Schæff. Eur. Schmett.* ii. 279, 300, pl. 76, f. 389.

Isle of Crete.

3. HADENA SATURA.

Saturate fusca; thorax fasciis biarcuatis nigris; abdomen cinereum; alæ anticæ fasciis repandis nigro-cinereis, ocellis duabus discalibus, maculis duabus posticis strigisque plurimis lanceolatis nigricantibus; posticæ cinereæ, litura discali marginæque obscurioribus.

Noctua Satura, *Wien. Verz.* P, 2. *Hübner. Eur. Schmett.* f. 75. *Dup. Hist. Nat. Lép. Fr.* vi. 319, pl. 92. *Freyer, Neue Beit.* iii. pl. 244, f. 71; *Ent. Zeit. Stett.* ii. 94.

Noctua porphyrea, *Esp. Schmett.* iv. pl. 145, f. 5. *Bork. Eur. Schmett.* iv. 188.

Hadena Satura, *Treit. Schmett.* v. 333. *Dup. Suppl.* iii. 236, pl. 22. *Guen. Ind.* 245; *Noct.* ii. 84, 780. *Eversm. Faun. Volg-Ural.* 225. *Boisd. Ind. Méth.* 120, 944. *Herr.-Schæff. Eur. Schmett.* ii. 279, 299.

Astrapetis Satura, *Hübner. Verz. Schmett.* 219, 2192.

a, b. Europe. From M. Becker's collection.

4. HADENA ASSIMILIS.

Alæ anticæ fusco-cupreæ, strigis ordinariis stigmatibusque cupreis; posticæ fusce.

Hadena assimilis, *H. Doubleday, Zoologist*, v. 1914. *Guen. Noct.* ii. 85, 781.

a. Scotland. From Mr. Stephens' collection.

5. HADENA ADUSTA.

Obscure fusca; abdomen fusco-cinereum; alæ anticæ fusce, nigro-fusco variæ, annulis duobus lineisque tribus transversis cinereis nigro marginatis, linea 1a 2aque undulatis, 3a denticulata marginali; posticæ subcinereæ, linea transversa angulata marginæque obscurioribus.

—————, *Engr. Pap. d' Eur.* 457, a, b, d.

Noctua adusta, *Esp. Schmett.* iv. pl. 149, f. 1, 2. *Dup. Hist. Nat. Lép. Fr.* vi. 316, pl. 91.

Noctua aquilina, *Bork. Eur. Schmett.* iv. 381, 156.

Noctua valida, *Hübner. Eur. Schmett. Noct.* f. 606—608.

Noctua duplex, *Haw. Lep. Brit.* 83.

Noctua porphyrea, *Scriba*, 145, pl. X, f. 4.

Astrapetis valida, *Hübner. Verz. Schmett.* 219, 2191.

Noctua (*Mamestria*) *adusta*, *Meig. Syst. Besch.* iii. 141, 108, pl. 104, f. 10.

Hadena adusta, *Treit. Schmett.* v. 339; *Suppl.* 46. *Dup. Suppl.* iii. 238, pl. 22. *Boisd. Ind. Méth.* 120, 945. *Herr.-Schæff. Eur. Schmett.* ii. 280, 305. *Guen. Noct.* ii. 85, 782.

Var. Hadena satura, *Steph. Ill. Brit. Ent. Haust.* ii. 181.

Var. Noctua Vulturina, *Frey. Beit.* i. pl. 63, f. 1.

Hadena Vulturina, *Herr.-Schæff. Schmett. Eur.* ii. f. 403.

Var. ? Noctua Accipetrina, *Esp. Schmett.* iv.

a—i. England. From Mr. Stephens' collection.

j, k. England.

l, m. Scotland. From Mr. Foxcroft's collection.

n, o. Europe. From M. Becker's collection.

6. HADENA CHARDINYI.

Fusco-cinerea; *alæ anticæ maculis lineisque distinctis nigris albo marginatis, guttis marginalibus albis*; *posticæ albidæ, macula lineâ margineque fuscis.*

Hadena Chardinyi, *Dup. Hist. Nat. Léop. Fr. Suppl.* pl. 21, f. 4.

Hadena pavida, *Herr.-Schæff. Schmett. Eur.* ii. 280, 306, pl. 97, f. 497.

Russia.

7. HADENA SOLIERI.

Fusca, cinereo varia; *thorax fascia undulata nigra*; *abdomen pallide cinereum*; *alæ anticæ margine exteriori cinereo, annulis duobus discalibus, venis ex parte strigisque marginalibus nigris, lineis nonnullis repandis albidis*; *posticæ pallide cinereæ, lineâ margineque obscurioribus.*

Hadena Solieri, *Boisd. Ind. Méth.* 120, 946. *Guen. Noct.* ii. 86, 783. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 233, pl. 22, f. 3. *Herr.-Schæff. Eur. Schmett.* ii. 279, 301, pl. 31, f. 152.

South France. Italy.

a, b. Europe. From M. Becker's collection.

Group 2.

Statura sæpissime parva. Antennæ tantum pubescentes. Alæ anticæ lineis maculisque bene determinatis, macula bidentata rarissime conspicua.

Size very generally small. Antennæ merely pubescent. Fore wings with the lines and the spots quite distinct; the bidentate mark only appearing accidentally.

8. HADENA FOVEA.

Ferruginea; abdomen fusco-cinereum; alæ anticæ lineis transversis undulatis fasciæ interrupta exteriore atris ex parte testaceo marginatis, fasciæ interrupta testacea maculam reniformem albidam includente; posticæ fusco-cinereæ.

Phlogophora fovea, *Treit. Schmett.* v. 380, 5; vi. 395. *Herr.-Schæff. Eur. Schmett.* ii. 277, 296.

Noctua fovea, *Dup. Hist. Nat. Lép. Fr.* vii. pl. 103, f. 4, 5. *Geyer, Schmett.* f. 733—736. *Frey. Beit.* pl. 46.

Noctua (Phlogophora) fovea, *Meig. Syst. Besch.* iii. 119, 67, pl. 101, f. 10.

Hadena fovea, *Guen. Ind.* 244; *Noct.* ii. 86, 784. *Boisd. Ind. Méth.* 121, 962.

Hungary.

9. HADENA OCCLUSA.

Nigro-fusca; caput cervinum, fasciæ nigra; thorax anticus cernuus, lineis duabus transversis biarcuatis obscurioribus; abdomen cinerascens; alæ anticæ lineis transversis undulatis duplicatis nigris, apud margines fusæ, guttis costalibus testaceis, macula discali transversa fulva; posticæ cinereæ, antice pallidiores.

Noctua furva, *Esp. Schmett.* iv. pl. 158, f. 1, 2.

Noctua oclusa, *Hübner. Eur. Schmett. Noct.* f. 732.

Noctua didymoides, *Dup. Hist. Nat. Lép. Fr.* vii. 106, pl. 107, f. 3.

Hadena oclusa, *Treit. Schmett. Suppl.* x. 65. *Guen. Ind.* 244; *Noct.* ii. 87, 785. *Boisd. Ind. Méth.* 121, 961.

Polia oclusa, *Herr.-Schæff. Schmett. Eur.* ii. 275, 289, pl. 13, f. 62.

France.

a—e. Europe. From M. Becker's collection.

10. HADENA ROBORIS.

Var. Cerris. Cinerea; thorax linea antica transversa interrupta biarcuata; abdomen testaceum; alæ anticæ fascia obliqua subobsoleta obscuriore, lituris costalibus, lunulis marginalibus strigisque transversis variis discalibus nigris, macula discali fusca; posticæ cinerascens, subfasciata, basi pallidiores, linea marginali fusca.

Noctua roboris, Hübn. Eur. Schmett. Noct. f. 847. Frey. Beit. iii. pl. 392, f. 2.

Hadena Roboris, Guen. Ind. 244; Noct. ii. 88, 787. Boisd. Ind. Méth. 121, 960. Dup. Hist. Nat. Léop. Fr. Suppl. iii. 159, pl. 15. Herr.-Schæff. Eur. Schmett. ii. 282, 313, pl. 11, f. 52.

Var. Hadena Cerris, Boisd. Ind. Méth. 121, 960. Herr.-Schæff. Schmett. Eur. ii. 282, pl. 31, f. 153.

a—c. Europe. From M. Becker's collection.

11. HADENA MONOCHROMA.

Nigro-cinerea; abdomen cinereum; alæ anticæ guttis basalibus et costalibus nigris; alæ anticæ fasciis tribus discalibus postice abbreviatis et connexis unaque submarginali fusco-cinereis nigro et ex parte albido marginatis; posticæ canescentes, litura discali margineque lato fusciscentibus.

———, *Engr. Pap. d'Eur. 353, a, b.*

Noctua monochroma, Esp. Schmett. iv. pl. 155, f. 3—6.

Noctua distans, Hübn. Eur. Schmett. Noct. f. 522, 523. Dup. Hist. Nat. Léop. Fr. vi. 262, pl. 89. Frey. Beit. ii. pl. 124.

Dichonia distans, Hübn. Verz. Schmett. 217, 2171.

Hadena distans, Treit. Schmett. v. 359; Suppl. 49. Guen. Ind. 244. Boisd. Ind. Méth. 120, 957. Herr.-Schæff. Eur. Schmett. ii. 281, 311.

Hadena sulceris, Boisd. Ind. 72. Dup. Suppl. iv. 263, pl. 117, f. 1, 2.

Hadena monochroma, Guen. Noct. ii. 88, 788.

a, b. Europe. From M. Becker's collection.

12. HADENA SAPORTÆ.

Cinereo-fusca; thorax linea transversa nigra; abdomen cinereum; alæ anticæ nigricante subnebulosæ, lineis transversis undulatis strigisque marginalibus lanceolatis nigris, illis testaceo marginatis, striga obliqua testacea orbicularem includente, reniformi testaceo notata; posticæ albidæ, macula, linea margineque fuscis.

———, *Engr. Pap. d'Eur.* 475, a—c.

Noctua Saportæ, *Esp. Schmett.* iv. 451, pl. 142, f. 2 (tenebrosa), *Dup. Hist. Nat. Lép. Fr.* vi. 410, pl. 98. *Geyer, Schmett.* f. 836, 837.

Hadena Saportæ, *Guen. Ind.* 244; *Noct.* ii. 88, 789. *Boisd. Ind. Méth.* 121, 958. *Herr.-Schæff. Eur. Schmett.* ii. 281, 307, pl. 11, f. 53.

Noctua Illeis (erratum), *Frey. Beit.* iii. pl. 292.

a, b. Europe. From M. Becker's collection.

c—e. Europe.

13. HADENA PROTEA.

Viridi-cinerea; thorax linea transversa antica biarcuata vittisque nigris; abdomen canescens; alæ anticæ ocellis duobus discalibus, lineis transversis undulatis, angulis exterioribus guttisque costalibus nigris; posticæ canescentes, lunula margineque fusco-cinereis interlineatis.

———, *Engr. Pap. d'Eur.* 292, a—c, e.

Noctua Protea, *Wien. Verz.* 84, 7. *Esp. Schmett.* iv. pl. 150, f. 6. *Scriba, Ins.* 199, pl. 13 (Thalassina erratum). *Brahm.* 292. *Bork. Eur. Schmett.* iv. 386, 158. *Hübner, Eur. Schmett. Noct.* pl. 87, f. 406. *Dup. Hist. Nat. Lép. Fr.* vi. 259, pl. 89, f. 2.

Noctua Seladonia? *Fabr. Ent. Syst.* iii. 2, 103, 308. *Haw. Lep. Brit.* 111.

Dichonia Protea, *Hübner, Verz. Schmett.* 217, 2173.

Hadena Protea, *Treit. Schmett.* v. 362, 22. *Guen. Ind.* 244. *Noct.* ii. 89, 790. *Boisd. Ind. Méth.* 121, 959. *Herr.-Schæff. Eur. Schmett.* ii. 281, 310.

Hadena Seladonia, *Steph. Ill. Brit. Ent. Haust.* iii. 23.

Noctua (Mamestra) Protea, *Meig. Syst. Besch.* iii. 144, 112, pl. 104, f. 3.

a—q. England. From Mr. Stephens' collection.

r, y. England.

z. Scotland. From Mr. Foxcroft's collection.

aa—dd. Europe. From M. Becker's collection.

14. HADENA CONVERGENS.

Cinereo-fusca; thorax albo nigroque fasciatus; abdomen cinerascens; alæ anticæ vitta interrupta, lituris costalibus striga basali lineisque undulatis incompletis venisque nigris, striga apud angulum anteriorem cervina; posticæ pallide cinereæ, macula discali margineque obscurioribus.

Noctua convergens, *Wien. Verz.* 84, 8. *Fabr. Ent. Syst.* iii. 2, 100, 297 (leucomelas erratim). *Bork. Eur. Schmett.* iv. 148. *Hübner. Eur. Schmett. Noct.* f. 84. *Dup. Hist. Nat. Lép. Fr.* vi. 298, pl. 91.

Noctua spicula, *Esp. Schmett.* iv. pl. 66, f. 2.

Dichonia convergens, *Hübner. Verz. Schmett.* 217, 2172.

Hadena convergens, *Treit. Schmett.* v. 357. *Guen. Ind.* 244; *Noct.* ii. 90, 794. *Boisd. Ind. Méth.* 120, 956. *Herr.-Schæff. Eur. Schmett.* ii. 282, 312.

France. Austria.

a. Europe. From M. Becker's collection.

15. HADENA PROXIMA.

Glaucescens; abdomen cinerascens; alæ anticæ lineis transversis nigris, fascia lata maculaque costali subapicali fuscescentibus macularum marginibus lineaque submarginali albis nigrisque; posticæ cinerascens, litura discali margineque fuscescentibus.

Noctua proxima, *Hübner. Eur. Schmett. Noct.* f. 409, 810. *Dup. Hist. Nat. Lép. Fr.* vi. 264, pl. 89. *Frey. Beitr.* ii. pl. 104.

Hadena proxima, *Treit. Schmett.* v. 324; *Suppl.* 44. *Guen. Ind.* 244; *Noct.* ii. 91, 796. *Boisd. Ind. Méth.* 119, 929.

Polia proxima, *Herr.-Schæff. Eur. Schmett.* ii. 258, 229.

Dichonia proxima, *Hübner. Verz. Schmett.* 217, 2170.

Switzerland. Styria.

16. HADENA NIGRICULA.

Fuliginoso-nigricans, subnebulosa, maculis lineisque ordinariis nigris, obsoletis; antennæ setaceæ.

Hadena nigricula, *Eversm. Bull. Soc. Imp. Nat. Mosc.* xx. 3, 79, 15.

Ural Mountains, Orenburg Province, Lower Volga Region.

17. *HADENA CANA*.

Cinerea; *alæ anticæ et maculæ nigro ex parte marginatæ*; *posticæ basi pallidiores*.

Var. *Albida*; *alæ anticæ cinereæ, ochraceo notatæ, lineis transversis nigris, costa, macularum marginibus et triente marginali albidis, linea basali maculaque inter orbicularem et reniformem nigris*. Fœm.—*Alæ anticæ albidæ, fascia obscuriore*.

Hadena cana, *Eversm. Bull. Mosc.* 1841, pl. 6, 7; *Faun. Volg-Ural.* 230. *Guen. Noct.* ii. 91, 797.

Polia cana, *Herr.-Schæff. Eur. Schm.* ii. 258, 230, pl. 17, f. 82.

Polia ochrostigma, *Herr.-Schæff. Eur. Schm.* ii. 258, 231, pl. 33, f. 165, 166; pl. 92, f. 475.

South Russia.

a, b. Europe. From M. Becker's collection.

18. *HADENA MEISSONIERI*.

Cinerascens; *antennæ moniliformes, pubescentes*; *thorax robustus, linea antica transversa nigra*; *alæ anticæ linea submarginali fere obsoleta, maculis discalibus concoloribus, disco obscuris, orbiculari pyriformi non obliqua, reniformi latiore magis rotundata, claviformi brevi*; *posticæ albæ, venis margineque angusto nigricantibus*.

Hadena Meissonieri, *Guen. Noct.* ii. 92, 798.

Marseilles.

19. *HADENA ALPIGENA*.

Testaceo-cinerea; *palpi graciles, caput superantes*; *abdomen testaceum, subcristatum*; *alæ anticæ albido variæ, apud medium saturatiore, lineis transversis et macularum marginibus nigris, orbiculari ovata obliqua, reniformi subexcavata, claviformi subacuta incumbente*; *posticæ flavescens-albæ, venis lineaque marginali fuscis*.

Hadena alpigena, *Boisd. Icon. Lép.* pl. 84; *Ind. Méth.* 120, 953. *Guen. Ind.* 244; *Noct.* ii. 93, 799.

Alps of South-East France.

Group 3.

Statura sæpissime mediocris. Alæ anticæ litura bidentata optime determinata.

Species of middling size. Fore wings with the bidentate mark more conspicuous than in the other groups.

20. HADENA GLAUCA.

Canescens, pilis nonnullis nigris; thorax fascia antica nigra; abdomen cinereum; alæ anticæ nigro nebulosæ aut maculatæ, lineis undulatis nigris cano marginatis, linea angulosa alba strigisque nigris exterioribus, maculis tribus albidis aut albido variis bene determinatis; posticæ fusco-cinereæ, ciliis albis.

Noctua glauca, *Kléem, Ins. i. pl. 48, f. 1—7. Hübn. Eur. Schmett. Noct. f. 410. Dup. Hist. Nat. Léop. Fr. vi. 322, pl. 92. Frey. Beit. ii. pl. 104.*

Æthria glauca, Hübn Verz. Schmett. 281, 2183.

Hadena glauca, Treit. Schmett. v. 322. Steph. Ill. Brit. Ent. Haust. ii. 185. Guen. Ind. 244; Noct. ii. 94, 801. Boisd. Ind. Méth. 119, 931.

Polia glauca, Herr.-Schaff. Eur. Schmett. ii. 263, 243.

Noctua aperta, Geyer, Schmett. 800.

Europe.

Var. Noctua Lappo, Dup. Hist. Nat. Léop. Fr. vii. 255, pl. 116.

Hadena Lappo, Guen. Ind. 244. Boisd. Ind. Méth. 930.

a. England. Presented by — Labrey, Esq.

b. England. From Mr. Carter's collection.

c—f. England. From Mr. Stephens' collection.

g—i. England.

j—l. Scotland. From Mr. Foxcroft's collection.

m, n. Europe. From M. Becker's collection.

21. HADENA DENTINA.

Canæ; thorax fusco fasciatus; abdomen pallide subtestaceum; alæ anticæ punctis nigris fasciisque variis fuscis nigro marginatis; posticæ cinerascens, margine lato cinereo-fusco, ciliis albidis.

Var. β . *Alæ anticæ fasciis vix determinatis.*

Var. γ . *Alæ anticæ testaceo tinctæ, fasciis cervinis vix nigro marginatis.*

———, *Engr. Pap. d'Eur.* 856, a—d.

Noctua dentina, *Wien. Verz.* 82, 8. *Fabr. Mant. Ins.* ii. 156, 151;
Ent. Syst. iii. 2, 69, 196. *Esp. Schmett.* iv. pl. 127, f. 2, 3;
pl. 149, f. 4, 5. *Bork. Eur. Schmett.* iv. 415, 166. *Hübner.*
Eur. Schmett. Noct. pl. 87, f. 408. *Dup. Hist. Nat. Lép. Fr.*
vi. 269, pl. 89. f. 6.

Phalæna-Noctua dentina, *Gmel. ed. Syst. Nat.* i. 5, 2543, 1038.

Astrapetis dentina, *Hübner. Verz. Schmett.* 219, 2188.

Hadena dentina, *Treit. Schmett.* v. 328, 10. *Guen. Ind.* 244;
Noct. ii. 95, 803. *Boisd. Ind. Méth.* 119, 928.

Noctua (Hadena) dentina, *Meig. Syst. Besch.* iii. 108, 47, pl. 100,
f. 5.

Noctua plebeia, *Haw. Lep. Brit.* 107.

Polia dentina, *Herr.-Schæff. Eur. Schmett.* ii. 263, 244.

Hadena plebeia, *Steph. Ill. Brit. Ent. Haust.* iii. 185.

Noctua leucostigma, *Haw. Lep. Brit.* 109.

Hadena leucostigma, *Steph. Ill. Brit. Ent. Haust.* ii. 186.

Var. *Statura paullo major; alæ obscuriores, lineamenta maculæque odontoidea magis conspicua.*

Hadena Latenai, *Pierret, Ann. Soc. Ent. Fr.* vi. 177, pl. 8, f. 3.

Glacier of Montanvert.

a—r. England. From Mr. Stephens' collection.

s—w. England.

x, y. Europe. From M. Becker's collection.

z—aa. France.

22. HADENA NANA.

Cinerea, alæ anticæ ocellis duabus discalibus lineisque transversis undulatis exterioribusque denticulatis canis nigro marginatis, ocello interiore et plaga obliqua cana conjunctis; posticæ lunula discali margineque nigricantibus.

———, *Engr. Pap. d'Eur.* 348, a, b.

Noctua nana, *Eur. Schmett.* iv. pl. 149, f. 4, 5.

Noctua marmorosa? *Bork. Eur. Schmett.* iv. 170. *Frey. Beit.* i.
pl. 4.

Noctua odontites, *Boisd. Ind.* 71.

Hadena marmorosa, *Treit. Schmett.* v. 326; *Suppl.* 45. *Guen. Ind.* 244. *Boisd. Ind. Méth.* 119, 927. *Dup. Hist. Nat. Lép. Fr. Suppl.* vi. 193, pl. 18.

Polia marmorosa, *Herr.-Schæff. Schmett. Eur.* ii. f. 65.

Hadena nana, *Guen. Noct.* ii. 95, 804.

Switzerland. Croatia.

Var. microdon, *Guen. Noct.* ii. 96.

Lapland.

a—d. Europe. From M. Becker's collection.

23. HADENA LEUCODON.

Fusco-cinerascens; thorax albo nigroque conspersus; alæ anticæ lineis variis albis nigro marginatis, strigis exterioribus nigris, maculis nigro marginatis, orbiculari alba angusta obliqua, reniformi albo marginata, linea submarginali apud medium valde angulosa; posticæ ciliis albis.

Hadena leucodon, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1837, 1. *Faun. Volg-Ural.* 219. *Guen. Ind.* 244; *Noct.* ii. 96, 805. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 325, pl. 30. *Herr.-Schæff. Schmett. Eur.* ii. pl. , f. 51.

Noctua leucodon, *Frey. Beit.* iv. pl. 359, f. 1.

South Russia.

24. HADENA PEREGRINA.

Pallide cervina; thorax antice nigro fasciatus; alæ anticæ ex parte pallidissime cervinæ, lineis undulatis incompletis, macularum marginibus ex parte, strigis exterioribus lanceolatis paucis lunulisque marginalibus nigris; posticæ albidæ, venis lineaque marginali fusciscentibus.

Hadena peregrina, *Treit. Schmett.* v. 330, 11; *Suppl.* 45. *Eversm. Faun. Volg-Ural.* 223. *Guen. Ind.* 214; *Noct.* ii. 98, 806. *Boisd. Ind. Méth.* 118, 922.

Noctua peregrina, *Frey. Beit.* pl. 70, 101.

Hadena Salsdæ, *Ramb. Ann. Soc. Obs.* 258, pl. 6, f. 1.

Noctua trimenda, *Geyer, Schmett.* f. 789—791.

Hadena contribulis, *Boisd. Ind.* 77.

Noctua contribulis, *Dup. Hist. Nat. Lép. Fr.* vii. 357, pl. 122.

Noctua Blenna? *Geyer, Schmett.* f. 706.

Shores of the Mediterranean.

a, b. Europe. From M. Becker's collection.

25. HADENA CHENOPODII.

Cinerea ; abdomen pallide cinereum ; alæ anticæ annulis duobus discalibus lineisque nonnullis transversis undulosis duplicatis nigricantibus ; posticæ albidæ, margine lato fuscescente.

———, *Albin, Ins.* pl. 29, f. 44. *Roës. Ins.* i. pl. 48.

Engr. Pap. d'Eur. 485, a—c.

Phalæna-Noctua Chenopodii, *Gmel. ed. Syst. Nat.* i. 5, 2543, 1036.

Noctua Chenopodii, *Wien. Verz.* 82, 6. *Fabr. Mant. Ins.* ii. 146, 149; *Ent. Syst.* iii. 2, 191. *Esp. Schmett.* iv. pl. 181. *Bork. Eur. Schmett.* 167. *Hübner. Eur. Schmett. Noct.* f. 86. *Haw. Lep. Brit.* 90. *Dup. Hist. Nat. Lép. Fr.* vii. 31, pl. 102, f. 3.

Noctua verna, *Esp. Schmett.* iv. pl. 117, A, f. 5, 6.

Noctua saucia, *Esp. Schmett.* iv. pl. 152, f. 5.

Hadena Chenopodii, *Treit. Schmett.* vi. 144.

Mamestra Chenopodii, *Steph. Ill. Brit. Ent. Haust.* ii. 195. *Guen. Ind.* 244; *Noct.* ii. 97, 807. *Boisd. Ind. Méth.* 118, 924.

Diataraxia Chenopodii, *Hübner. Verz. Schmett.* 219, 2202.

Europe and North America.

a, b. England. Presented by W. Wing, Esq.

c—v. England. From Mr. Stephens' collection.

u—y. England.

z—dd. Europe. From M. Becker's collection.

ee. Europe. From Mr. Milne's collection.

26. HADENA FARKASII.

Canescens ; alæ anticæ cinereæ, fascia lata media obscuriore, lineis transversis nigris cano marginatis, submarginali valde angulosa, orbiculari et reniformi cano marginatis, linea exteriori e guttis albidis ; posticæ albæ, margine cinereo.

Hadena Farkasii, *Treit. Schmett. Suppl.* 74. *Guen. Noct.* ii. 97, 808.

Polia Farkasii, Herr.-Schæff. Schmett. Eur. ii. 254, pl. 76, f. 390.

Syrmia.

27. HADENA TREITSCHKII.

Cinerea; thorax fasciis fuscis; alæ anticæ lineis transversis undulatis, lituris costalibus, macularum marginibus strigisque exterioribus paucis lanceolatis nigris, lineis transversis angulosis fuscis, reniformi cinerea; posticæ margine lato fuscescente.

Hadena Treitschkii, Boisd. Ann. Soc. Lin. 1827, 111, pl. 6, f. 2; Ind. Méth. 19, 926. Treit. Schmett. Suppl. 69. Guen. Ind. 244. Boisd. Ind. Méth. 119, 926.

Noctua Treitschkii, Dup. Hist. Nat. Léop. Fr. vii. 40, pl. 103, f. 1. Geyer, Schmett. f. 850. Herr.-Schæff. Schmett. Eur. ii. pl. 14, f. 68, 69.

South France.

28. HADENA SODÆ.

Pallide cinerascens; thorax subfasciatus; alæ anticæ lineis transversis undulatis canis et fuscescentibus, lituris costalibus fuscis, lunulis marginalibus nigricantibus, maculis fusco marginatis, reniformi fasciaque marginali undulata cinereis; posticæ canescentes, margine fusco-cinereo. Mas.—Antennæ distincte serratæ.

Hadena Sodæ, Ramb. Ann. Sci. Obs. 1829, 260, pl. 6, f. 7. Boisd. Ind. Méth. 118, 923. Treit. Schmett. Suppl. 68. Geyer, Schmett. f. 850. Guen. Ind. 244; Noct. ii. 98, 811. Dup. Hist. Nat. Léop. Fr. Suppl. iii. 274, pl. 25.

Polia Sodæ, Herr.-Schæff. Schmett. Eur. ii. pl. 13, f. 60; pl. 14, f. 66, 67.

a, b. Europe. From M. Becker's collection.

29. HADENA SOCIABILIS.

"Alæ anticæ cinereæ, lineis tribus transversis luteo subcinereo-albidis lineolis subcinereo-fuscis cinctis, basali sinuata, mediana arcuata, marginali lineamentis tribus sagittatis; macula orbitali parva rotunda subcinereo-albida fusco-cincta; macula reniformi cinereo-nigricante, macula 3a in figura lunulæ paululum productæ; posticæ cinereo-albidæ, lunula centrali fasciaque marginali cinereis; antennæ subcinereo-fuscæ, filiformes."

Hadena sociabilis, *Graslin*, *Ann. Soc. Ent. Fr.* 2me Sér. viii. 412, 5, pl. 10, f. 13. *Guen. Noct.* ii. 98, 812.

Eastern Pyrenees.

30. HADENA ATRIPLICIS.

Purpureo-fusca; *thorax fascia vittisque duabus viridibus*; *abdomen cinereo-fuscum, cristis nigro-fuscis*; *alæ anticæ vitta costali fasciis duabus diffusis maculisque viridibus, guttis costalibus subapicalibus strigaeque discali albidis, lineis transversis undulatis lunulisque marginalibus nigris*; *posticæ cinereæ, margine latissimo fusco, ciliis albidis.*

———, *Roës. Ins.* i. pl. 31. *Schæff. Ins.* iii. pl. 225. *Wilk. Pap.* 3, pl. 1, a, 2. *Engr. Pap. d'Eur.* 464, a—c. *Sepp. Ins.* iv. pl. 27.

Phalæna-Noctua Atriplicis, *Linn. Faun. Suec.* 1196. *Gmel. ed. Syst. Nat.* i. 5, 2572, 173.

Noctua Atriplicis, *Wien. Verz.* 92, 10. *Fabr. Sp. Ins.* ii. 232, 115; *Mant. Ins.* ii. 169, 227; *Ent. Syst.* iii. 2, 95, 282. *Esp. Schmett.* iv. pl. 168, f. 1. *Bork. Eur. Schmett.* iv. 434, 174. *Hübner. Eur. Schmett. Noct.* pl. 17, f. 83. *Dup. Hist. Nat. Lép. Fr.* vi. pl. 100, f. 1. *Donov. Brit. Ins.* viii. pl. 262. *Haw. Lep. Brit.* 104.

Trachea Atriplicis, *Hübner. Verz. Schmett.* 219, 2203. *Treit. Schmett.* v. 66, 1.

Noctua (Miselia) Atriplicis, *Meig. Handb.* 164, 41; *Syst. Besch.* iii. 127, 80, pl. 102, f. 2.

Hadena Atriplicis, *Curt. Brit. Ent.* f. 431. *Steph. Ill. Brit. Ent. Haust.* iii. 22. *Guen. Ind.* 244; *Noct.* ii. 99, 813. *Boisd. Ind. Méth.* 119, 940.

Polia Atriplicis, *Herr.-Schæff. Eur. Schmett.* ii. 263, 245.

a—g. England. From Mr. Stephens' collection.

h—j. England.

k, l. Europe. From M. Becker's collection.

m, n. Europe. From Mr. Milne's collection.

o, p. Germany.

Group 4.

Statura sat magna. *Alæ anticæ fuscae aut rufescentes, maculis pallidis, linea submarginali optime determinata, læte colorata, lituram bidentatam conspicuam fingente.*

Species of rather large size. Fore wings brown or reddish; discal spots more or less pale; submarginal line clearly defined, brightly coloured, forming a very distinct bidentate mark.

31. HADENA SUASA.

Murino-fusca; thorax fascia antica undulata nigricante; abdomen murinum; alæ anticæ lineis transversis obsoletis, linea basali et macularum marginibus canis nigro marginatis, linea submarginali biangulata albida, lunulis marginalibus nigris; posticæ cinerascens, fascia fuscescens.

———, *Engr. Pap. d'Eur.* 478, a—c.

Noctua suasa, *Wien. Verz.* 83, 18. *Bork. Eur. Schm.* iv. 457, 182. *Hüb. Eur. Schm.* *Noct.* pl. 91, f. 426. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 101, f. 7.

Noctua dissimilis, *Knoch, Beitr.* i. pl. 4, f. 1—4. *View.* 98.

Noctua dens canis, *Haw. Lep. Brit.* 85.

Noctua leucographa, *Esp. Schm.* i. 150, f. 3.

Diataraxia suasa, *Hüb. Verz. Schm.* 219, 2201.

Noctua (*Mamestra*) *suasa*, *Meig. Syst. Besch.* iii. 139, 105, pl. 104, f. 8.

Hadena suasa, *Treit. Schm.* v. 136, 4. *Steph. Ill. Brit. Ent. Haust.* ii. 193. *Guen. Ind.* 244; *Noct.* ii. 99, 814. *Boisd. Ind. Méth.* 118, 916.

Var. Hadenæ aliena, *Dup. Suppl.* iii. 323, pl. 30. (*Suasa*, *var. Errata*).

Var. Noctua W. latinum, *Esp. Schm.* iv. pl. 136, f. 3.

a, b. England. Presented by E. Doubleday, Esq.

c—m. England. From Mr. Stephens' collection.

n, o. England.

p—s. Europe. From M. Becker's collection.

32. HADENA ALIENA.

Subfuscescens-cinerea; abdomen cinereum; alæ anticæ fusco conspersæ, fasciis diffusis subobsoletis fusciscentibus, macula discali lineaque transversa exterior sordide albidis fusco marginatis; posticæ pallide cinereæ, margine obscuriore.

Noctua aliena, *Hüb. Eur. Schm.* *Noct.* f. 441.

Hadena aliena, *Guen. Ind.* 238; *Noct.* ii. 100, 815.

Noctua permixta? Geyer, *Schmett.* f. 803.

Diataraxia aliena, Hübn. *Verz. Schmett.* 219, 2200.

Austria.

Var. Hadenæ pavidæ, Boisd. *Ind. Méth.* 120, 943. Herr.-Schæff.
Eur. Schmett. iii. 280, 306, pl. 97, f. 497.

Hadenæ Chardiniyi?? Dup. *Suppl.* iii. 231, pl. 20.

South Russia.

33. HADENÆ OLERACEÆ.

Rubido-cervina; abdomen testaceum; alæ anticæ macula discali
interiore venisque cinereis, macula discali exteriori subquad-
rata testacea, fascia tenui submarginali denticulata alba;
posticæ cinerascens, ciliis albidis.

———, Albin, *Ins.* pl. 27, 40. Roës. *Ins.* i. pl. 32. Deg.
Ins. ii. 420, pl. 7. Sepp, *Ins.* iii. pl. 14, f. 7. Engr. *Pap.*
d'Eur. 479, a—e. Rai, *Ins.* 166, 21. Réaum. *Ins.* ii. pl. 39,
f. 4. Frisch, *Ins.* vii. pl. 21. Ammir. *Ins.* pl. 7.

Phalæna oleracea, Linn. *Faun. Suec.* 1197. Gmel. *ed. Syst. Nat.* i.
5, 2571, 171.

Phalæna dissimilis, Knoch, *Beitr.* i. 57, 12, pl. 4, f. 1—4.

Noctua oleracea, Wien. *Verz.* 83, 19. Fabr. *Sp. Ins.* ii. 233, 122;
Mant. Ins. ii. 170, 236; *Ent. Syst.* iii. 2, 99, 295. Esp.
Schmett. iv. pl. 165, f. 4—8. Bork. *Eur. Schmett.* iv. 450,
180. Hübn. *Eur. Schmett. Noct.* pl. 18, f. 87. Dup. *Hist.*
Nat. Léop. Fr. vii. pl. 101, f. 6. Haw. *Lep. Brit.* 93.

Noctua Spinaciæ, Bork. *Eur. Schmett.* iv. 454, 181.

Diataraxia oleracea, Hübn. *Verz. Schmett.* 219, 2199.

Noctua (Mamestra) oleracea, Meig. *Handb.* 165, 44; *Syst. Besch.*
iii. 139, 104, pl. 104, f. 7.

Mamestra oleracea, Treit. *Schmett.* v. 132, 3. Steph. *Ill. Brit.*
Ent. Haust. ii. 193.

Hadenæ oleracea, Guen. *Ind.* 244; *Noct.* ii. 101, 816. Boisd. *Ind.*
Méth. 118, 917.

a, b. England. Presented by W. Wing, Esq.

c—i. England. From Mr. Stephens' collection.

j—m. England.

n, o. Europe. From M. Becker's collection.

34. HADENA PISI.

Rubida aut cervina; abdomen testaceum; alæ anticæ fasciis nonnullis annulisque duobus discalibus subquadratis obscurioribus et pallidioribus, fascia exteriora denticulata flavescente nigro submarginata; posticæ canescentes, margine fusciscentes.

———, *Albin*, *Ins.* pl. 32, f. 51. *Roës. Ins.* i. pl. 52, *Deg. Ins.* ii. 441. *Sepp, Ins.* iv. pl. 46. *Engr. Pap. d'Eur.* 477, a—e. *Rai, Ins.* 160, 10. *Merian, Ins. Eur.* pl. 50. *Wilk. Pap.* iv. pl. 1, a, 7.

Phalæna-Noctua Pisi, *Linn. Faun. Suec.* 1206. *Gmel. ed. Syst. Nat.* i. 5, 2572, 172.

Noctua Pisi, *Wien. Verz.* 83, 14. *Fabr. Sp. Ins.* ii. 231, 112; *Mant. Ins.* ii. 168, 220; *Ent. Syst.* iii. 2, 93, 275. *Esp. Schmett.* iv. pl. 167, f. 1—5. *Bork. Eur. Schmett.* iv. 446, 179. *Hübner. Eur. Schmett. Noct.* pl. 91, f. 429. *Dup. Hist. Nat. Léop. Fr.* vii. 20, pl. 101, f. 5. *Haw. Lep. Brit.* 193. *Donov. Brit. Ins.* ii. pl. 51.

Hadena Pisi, *Treit. Schmett.* v. 128, 1. *Guen. Ind.* 244; *Noct.* ii. 101, 817. *Boisd. Ind. Méth.* 118, 918.

Mamestra Pisi, *Hübner. Verz. Schmett.* 214, 2136. *Steph. Ill. Brit. Ent. Haust.* iii. 192.

Noctua (Mamestra) Pisi, *Meig. Handb.* 165, 43; *Syst. Besch.* iii. 138, 103, pl. 104, f. 6.

Var. Mamestra splendens, *Steph. Ill. Brit. Ent. Haust.* iii. 192.

Europe. North America.

a—n. England. From Mr. Stephens' collection.

o—v. England.

u, w. Europe. From M. Becker's collection.

35. HADENA SPLENDENS.

Rufescens; abdomen canescens, apice pallide rufescens; alæ anticæ fasciis obscurioribus, ocellis duobus discalibus lineaque transversa submarginali canescentibus; posticæ canescentes, fascia subobsoleta margineque lato canescentibus.

Noctua splendens, *Hübner. Eur. Schmett. Noct.* f. 400.

Diataraxia splendens, *Hübner. Verz. Schmett.* 219, 2195.

Hadena splendens, *Treit. Schmett.* v. 131. *Guen. Ind.* 244; *Noct.* ii. 103, 819. *Boisd. Ind. Méth.* 118, 919. *Herr.-Schæff. Schmett. Eur.* ii. f. 396.

Germany.

Group 5.

Statura mediocris aut sat magna. Alæ anticæ maculis lineisque bene determinatis, linea submarginali lituram bidentatam distinctam fingente.

Species of moderate or rather large size. Fore wings with well-defined discal spots and transverse lines; the submarginal line forming a distinct bidentate mark.

36. HADENA THALASSINA.

Ferruginosa; thoracis fascia biarcuata abdominisque cristæ nigræ; alæ anticæ guttis costalibus, annulis duobus discalibus (exteriore extus emarginato), linea postica furcata strigisque exterioribus lanceolatis nigricantibus, guttis costalibus, maculis duabus costalibus lineisque transversis angulatis subtestaceis; posticæ cinereæ, litura discali obscuriore, linea postica pallidiore.

—————, *Engr. Pap. d'Eur.* 494, a, b.

Noctua thalassina, *Naturf.* ix. 119. *Berl. Mag.* iii. 298. *Bork. Eur. Schmett.* iv. 383, 157. *Dup. Hist. Nat. Lép. Fr.* vi. 292, pl. 91, f. 3. *Frey. Beitr.* i. pl. 27.

Noctua Achates, *Hübner. Eur. Schmett. Noct.* pl. 133, f. 610.

Astrapetis Achates, *Hübner. Verz. Schmett.* 219, 2194.

Noctua (Mamestra) thalassina, *Meig. Syst. Besch.* 142, 109, pl. 105, f. 3.

Noctua humeralis? *Haw. Lep. Brit.* 84.

Hadena thalassina, *Treit. Schmett.* v. 342, 15. *Herr.-Schæff. Eur. Schmett.* ii. 280, 304. *Steph. Ill. Brit. Ent. Haust.* ii. 182. *Guen. Ind.* 244; *Noct.* ii. 103, 820. *Boisd. Ind. Méth.* 120, 949.

a—h. England. From Mr. Stephens' collection.

i—l. England.

m, q. Europe. From M. Becker's collection.

37. HADENA CONTIGUA.

Cinerea; cristæ, thoracisque fascia antica et vittæ duæ posticæ obliquæ nigræ; alæ anticæ strigis basalibus, guttis costalibus, annulis duobus plagaque diffusa discalibus, lineis transversis undulatis, strigisque lanceolatis exterioribus nigris, fascia interrupta media lineaque transversa angulata exteriore albis; posticæ canescentes, margine cinerascens.

———, *Engr. Pap. d'Eur.* 472, a—f.

Phalæna-Noctua contigua, *Gmel. ed. Syst. Nat.* i. 5, 2543, 1037.

Noctua contigua, *Wien. Verz.* 82, 7. *Fabr. Mant. Ins.* ii. 156, 151; *Ent. Syst.* iii. 2, 67, 194. *Kléem, Beitr.* i. pl. 42. *Hübner, Eur. Schmett. Noct.* pl. 18, f. 85; pl. 133, f. 609. *Dup. Hist. Nat. Léop. Fr.* vi. 289, pl. 91, f. 2. *Frey. Beitr.* i. pl. 16.

Noctua Ariæ, *Esp. Schmett.* iv. pl. 160, f. 8.

Noctua Spartii, *Brahm, Ins.* 209. *Bork. Eur. Schmett.* iv. 352, 147.

Noctua dives, *Haw. Lep. Brit.* 82.

Astrapetis contigua, *Hübner, Verz. Schmett.* 219, 2189.

Noctua (Mamestra) contigua, *Meig. Syst. Besch.* iii. 143, 111, pl. 105, f. 1.

Hadena, *Treit. Schmett.* v. 352, 18. *Steph. Ill. Brit. Ent. Haust.* ii. 184. *Guen. Ind.* 244; *Noct.* ii. 103, 821. *Boisd. Ind. Méth.* 120, 952. *Herr.-Schæff. Eur. Schmett.* ii. 279, 302.

a—i. England. From Mr. Stephens' collection.

j—q. England.

r, s. Scotland. From Mr. Foxcroft's collection.

t, u. Europe. From M. Becker's collection.

v, w. France.

38. HADENA W-LATINUM.

Rubida; thorax fascia antica obscuriore; abdomen subtestaceum, cristis nigris; alæ anticæ lineolis transversis indistinctis obscurioribus, costæ guttis venarumque punctis albidis et nigricantibus, lineola transversa discali angulata biarcuata albida.

Var. *Thorax fuscescens*, cervino varius; alæ anticæ fuscесcentes, cervino variæ, strigis duabus basalibus, guttis costalibus maculisque marginalibus nigricantibus, lineola rectangulari discali nigra.

Var. *Canescens*; thorax fascia nigra; alæ anticæ plaga discali fusca, vitta basali, lineis transversis undulatis, annulis duobus discalibus, strigisque exterioribus lanceolatis nigris.

———, *Engr. Pap. d'Eur.* 473, a, b.

Noctua W-latinum, *Hübner, Berl. Mag.* iii. 294. *Rottenh. Naturf.* ix. 39. *Esp. Schmett.* iv. pl. 136, f. 2. *Bork. Eur. Schmett.* iv. 378, 155.

Noctua Genistæ, *Pezold, in Scriba, Beitr.* 241, pl. 15, f. 13, 14.
Bork. Eur. Schmett. iv. 355, 147. *Hübner. Eur. Schmett. Noct.*
 pl. 134, f. 611, 612. *Dup. Hist. Nat. Léop. Fr.* vi. 285, pl. 91,
 f. 1. *Frey. Beitr.* i. pl. 22.

Astrapetis Genistæ, *Hübner. Verz. Schmett.* 219, 2190.

Noctua rectilinea, *Haw. Lep. Brit.* 81.

Noctua dives, *Donov. Brit. Ins.* pl. 352.

Noctua (Mamestra) Genistæ, *Meig. Syst. Besch.* il. 143, 110, pl.
 105, f. 2.

Hadena Genistæ, *Treit. Schmett.* v. 349, 17. *Steph. Ill. Brit. Ent.*
Haust. ii. 183. *Guen. Ind.* 244. *Boisd. Ind. Méth.* 120, 951.
Herr.-Schæff. Eur. Schmett. ii. 280, 303.

Hadena W-Latinum, *Guen. Noct.* ii. 104, 822.

Europe and North America.

a—h. England. From Mr. Stephens' collection.

i. England. From Mr. Stevens' collection.

j, k. England.

l—o. Europe. From M. Becker's collection.

39. HADENA GRANDIS.

Fuscescens; thorax cano varius, fascia antica nigro-fusca; abdomen cinerascens; alæ anticæ vitta interrupta nigricante, orbitali et reniformi magnis pallidis albido marginatis, fascia exterior albida, strigis submarginalibus nigris linea submarginali angulosa albida interruptis; posticæ cinerascens, margine fuscescente.

Hadena grandis, *Boisd. Ind. Méth.* 120, 950. *Guen. Ind.* 244;
Noct. ii. 105, 823.

Lapland. Greenland.

a. New York. Presented by E. Doubleday, Esq.

Group 6.

Xylina affinis. Antennæ ciliis magis conspicuis. Alæ anticæ lituris radiatis elongatis.

Allied to *Xylina*. Antennæ more ciliated than in the other groups. Markings of the fore wings radiated longitudinally.

40. HADENA RECTILINEA.

Cana; thorax fascia antica vittisque duabus lateralibus fuscis nigro marginatis; alæ anticæ fuscae, nigro lineatae, costa ex maxima parte, ocellis duabus anticis denticulisque exterioribus et interioribus albis; posticæ albidæ, fascia margineque lato cinereis.

———, *Engr. Pap. d'Eur.* 385, a, b.

Noctua rectilinea, *Esp. Schmett.* iv. 379, pl. 127, f. 1. *Hübner. Eur. Schmett. Noct.* f. 248. *Dup. Hist. Nat. Léop. Fr.* vii. 231, pl. 114. *Frey. Beitr.* pl. 4, c.

Hadena rectilinea, *Treit. Schmett.* vii. 61; *Suppl.* 118. *Eversm. Faun. Volg-Ural.* 294. *Guen. Ind.* 244; *Noct.* ii. 105, 824. *Boisd. Ind. Méth.* 120, 948.

Xylophasia rectilinea, *Steph. Ill. Brit. Ent. Haust.* ii. pl. 179.

Lithomoia rectilinea, *Hübner. Verz. Schmett.* 244, 2425.

Hyppa rectilinea, *Duponch. Herr.-Schæff. Eur. Schmett.* ii. 289, 337. *Steph. Cat Brit. Lep.* 2nd edit. 86, 1.

a. England. Presented by S. Stevens, Esq.

b—d. England. From Mr. Stephens' collection.

e—l. Scotland. From Mr. Foxcroft's collection.

m—q. Europe. From M. Becker's collection.

r, s. Europe. From Mr. Milne's collection.

t. New York. Presented by E. Doubleday, Esq.

Group — ?

41. HADENA HILARIS.

H. dentinæ affinis? Alæ anticæ cano fuscoque variæ, macula bifida cum macula ordinaria interiore subtus confluenta, striga postica dentata albis.

Hadena hilaris, *Zett. Ins. Lapp.* 938, 4.

Lapland.

42. HADENA ALPICOLA.

Alæ anticæ læte cinereæ, parce fusco maculatæ, maculis ordinariis canis, harum reniformi in medio rubente; posticæ subcinereæ, basi dilutiores.

Hadena alpicola, *Zett. Ins. Lapp.* 938, 5.

Lapland. Norway.

43. HADENA LAPPO.

Alæ anticæ cinereæ fusco nigroque variæ, strigis tribus dentatis distinctioribus nigris extus subcinereo marginatis, maculis ordinariis parvis obsoletis cinerascentibus; posticæ subcinereæ, fimbria tenui alba.

Noctua Lappo, *Dalm. MSS.*

Hadena Lappo, *Boisd. Ind. Méth.* 119, 930. *Zett. Ins. Lapp.* 939, 10.

Lapland.

44. HADENA QUADRIPOSITA.

Alæ anticæ cinereo-fusco nigroque variæ, striga ad marginem posticum dentata alba intus nigro marginata, maculisque disci quatuor rotundatis albido-cinereis; posticæ fuscæ.

Hadena quadripes, *Zett. Ins. Lapp.* 939, 11.

Lapland.

45. HADENA EXTRICATA.

Alæ anticæ nigricantes cinereo-fuscoque variæ, strigis duabus geminis dentatis, macula ordinaria interiore ovata striolisque basalibus ad costam albis; posticæ fuliginosæ, fimbria alba.

Hadena extricata, *Zett. Ins. Lapp.* 940, 17.

Lapland.

46. HADENA ARCTICA.

“Alæ anticæ subcinereo fuscoque variæ, maculis ordinariis subobsoletis strigisque tribus albidis, et in striga postica juxta apicem lituris duabus geminis nigris; posticæ subcinereæ.”

Noctua arctica, *Dalm. MSS.*

Hadena arctica, *Zett. Ins. Lapp.* 939, 12.

Lapland.

47. HADENA LÆTABILIS.

Alæ anticæ subcinereo fuscoque variæ, maculis ordinariis strigisque duabus albidis, juxta apicem lituris duabus nigris; posticæ albidæ, lunula media strigaque tenuissima in summo margine fuscis.

Hadena lætabilis, *Zett. Ins. Lapp.* 940, 14.

Lapland.

48. HADENA AQUILONARIS.

Alæ anticæ cinerascens obscure fusco nebulosæ, maculis ordinariis obsoletis, margine summo nigro punctato; posticæ subcinereæ immaculatæ.

Hadena aquilonaris, Zett. *Ins. Lapp.* 940, 13.

Lapland.

49. HADENA? MARMORATA.

“Alæ anticæ subcinereo fuscoque variæ maculis ordinariis strigaeque postica undulata pallidis, serie punctorum nigrorum intra marginem apicalem; posticæ fuscae.”

Hadena marmorata, Zett. *Ins. Lapp.* 937, 2.

Lapland.

50. HADENA? BOREALIS.

Alæ anticæ obscure fusco-subcinereæ, maculis ordinariis dilutioribus interstitio nigro-fusco, strigaeque inter marginem posticum pallida; posticæ fusco-subcinereæ.

Noctua borealis, Dalm. MSS.

Hadena? borealis, Zett. *Ins. Lapp.* 941, 19.

Lapland.

51. HADENA? IRIS.

Alæ sordide cinereæ, anticæ striga postica punctorum fuscorum, maculisque ordinariis atro-cinctis.

Hadena? Iris, Zett. *Ins. Lapp.* 941, 22.

Lapland.

52. HADENA? LABECULA.

Alæ anticæ canæ cinereo nebulosæ, maculis ordinariis et una basali interius nigro marginata, albidis, puncto cordiformi submacula ordinaria interiore, nigro; posticæ subcinereæ.

Hadena labecula, Zett. *Ins. Lapp.* 941, 21.

Lapland.

53. HADENA BALTICA.

H. adustæ affinis ; alæ rufescente suffusæ.

Hadena Baltica, *Hering, Ent. Zeit. Stett.* vii. 237, 6.

North Europe.

54. HADENA SUBCONTIGUA.

Alæ anticæ nigricante-cinereæ, umbrosæ ; maculis ordinariis pallidioribus ; striga submarginali alba, in medio dentibus duobus obtusis instructa ; posticæ cinereæ, externe nigricantes.

Hadena subcontigua, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1852, 155, 5.

South-West Ural.

55. HADENA? MULTICUSPIS.

Alæ anticæ fuscescentes, albido radiosæ, macula ordinaria interna horizontali ; posticæ fuscescente-cinereæ, ciliis albis.

Hadena multicuspis, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1252, 1, 152, 2.

Steppes South of the Wolga and of the Ural Region.

North America.

Group 1.

Like the second European group.

56. HADENA MISELIOIDES.

Viridis ; thorax nigro bivittatus, antice cinerascens ; abdomen cinereum ; alæ anticæ cinereo variæ, lineis transversis undulatis lunulisque marginalibus nigris, maculis nigro ex parte marginatis, reniformi alba magna vix excavata ; posticæ fusco-cinereæ, subfasciatæ, lunulis marginalibus nigris.

Hadena miselioides, *Guen. Noct.* ii. 89, 791.

Carolina, New York.

a—c. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

d. North America. From Mr. Milne's collection.

57. *HADENA DISTINCTA*.

Canæ; caput nigro fasciatum; thorax nigro fasciatus et bivittatus; abdomen cinerascens; alæ anticæ fascia obliqua postice abbreviata margineque exteriori fuscis, lineis undulatis albidis nigro marginatis, strigis exterioribus lunulisque marginalibus nigris, maculis magnis albidis nigro ex parte marginatis, plaga apud reniformem subtestacea; posticæ cinereæ, margine tenui nigro.

Achatia vulgaris distincta, Hübn. *Samml. Exot. Schmett.* i. *Lep.* iv. *Noctuæ*, ii. *Genuinæ*, iv. *Achatia*, B. *Vulgares*, a, f. 1—4.

Hadena distincta, Guen. *Noct.* ii. 91, 795.

a. Northern United States. Presented by E. Doubleday, Esq.

Group 2.

Like the third European group.

58. *HADENA BELLICULA*.

Mas. Fusca; alæ anticæ plaga postmedia antice furcata flava rufo varia, linea transversa arcuata antice furcata alba, linea transversa undulosa subbasali nigris, maculisque duabus mediis nigris, antica extus albo marginata.

Lithacodia bellicula (*Noctua bombycoides*, *Jaspidia varia*), Hübn. *Samml. Exot. Schmett.* i. 18, 43, f. 85, 86.

Georgia. Florida.

Group 3.

Like the fifth European group.

59. *HADENA SOMMERI*.

Alæ anticæ fusco cinereoque marmoratæ, strigis duabus dentatis nigris albo limbatis, maculis ordinariis cineraceis; posticæ fulvo-cinereæ.

Hadena Sommeri, Lefebvre, *Ann. Soc. Ent. Fr.* 1836, iii. 391, pl. 10, f. 1, 2. *Zett. Ins. Lapp.* 940, 15. *Boisd. Ind. Méth.* 119, 934.

Greenland.

60. *HADENA INTRACTA*.

Nigricans ; thorax antice cinereus ; abdomen cinereum ; alæ anticæ lineis atris duplicatis indistinctis, strigis submarginalibus guttisque marginalibus nigris, maculis remotis nigro marginatis et notatis, orbiculari cinerea obliqua ; posticæ albidæ.

Blackish. Third joint of the palpi less than one-third of the length of the second. Thorax cinereous in front. Abdomen cinereous. Fore wings with the usual lines double, deep black, indistinct ; a row of black marginal dots, and a row of black submarginal streaks by the site of the submarginal line, which is obsolete ; spots with black borders and slight blackish marks in the disk ; orbicular cinereous, oblique, very remote from the reniform, which is hardly larger. Hind wings whitish. Length of the body 7 lines ; of the wings 18 lines.

a. Arctic America. Presented by Sir J. Richardson.

The specimen described is much injured, and the specimen may be incorrectly placed here.

Group 4.

Like the sixth European group.

61. *HADENA XYLINOIDES*.

Cinerascens ; thorax nigro fasciatus, lateribus fuscis nigro vittatis ; alæ anticæ ex parte ferruginosæ, vitta interrupta nigra, lineis medianis albis remotis angulosis ex parte nigro marginatis, strigis marginalibus nigris, linea submarginali alba incompleta valde angulosa, maculis albido nigroque marginatis, orbiculari angusta obliqua, reniformi valde excavata ; posticæ fusco-cinereæ, ciliis albidis.

Hadena Xylinoïdes, Guen. Noct. ii. 106, 825.

a—c. New York. Presented by E. Doubleday, Esq.

Group ?

62. HADENA? PICTICOLLIS.

Alæ anticæ cano nigroque variæ, maculis ordinariis fasciæque postica canescentibus; posticæ fuscæ; caput et prothorax alba, hic striga media transversa nigra.

Hadena picticollis, Zett. *Ins. Lapp.* 939, 9.

Greenland.

West Indies.

Group 1.

Like the first European group.

63. HADENA INSIGNIS.

Ferrugineo-nigra (mas) aut *ferruginea* (fœm.), *subtus testacea; abdominis latera testacea; alæ anticæ denticulatæ, lineis atris undulatis indistinctis incompletis, linea submarginali e strigis atris ferrugineo terminatis, orbiculari obsoleta, reniformi ferruginea; posticæ pallidissime flavæ, marginibus latissimis æneo-fuscis.*

Male. Ferruginous-black, testaceous beneath. Palpi ascending, vertical; third joint cylindrical, about one-third of the length of the second. Antennæ about half the length of the body. Abdomen testaceous on each side, very distinctly crested, extending for about one-fourth of its length beyond the hind wings. Fore wings distinctly denticulated; transverse lines deep black, undulating, indistinct and incomplete; submarginal line represented by deep black streaks which end in ferruginous dots; orbicular spot obsolete; reniform distinguished by a ferruginous spot. Hind wings very pale yellow, with a very broad æneous-brown border. *Female.*—Ferruginous instead of black. Length of the body 8—9 lines; of the wings 18—20 lines.

a. Jamaica. From Mr. Gosse's collection.

b. Jamaica? Presented by E. Doubleday, Esq.

Group 2.

Like the second European group.

64. *HADENA PUNCTIRENA*.

Mas. *Ferruginea; thorax fascia nigricante; abdomen cinereum nigro cristatum; alæ anticæ lineis undulatis valde incompletis, strigis marginalibus nigris e linea submarginali testacea subundulata divisis, maculis nigro marginatis, reniformi litura testacea guttisque tribus albis signata; posticæ candidæ, fusco marginatæ, venis apice nigris, ciliis testaceis.*

Male. Ferruginous. Palpi ascending, almost vertical; third joint cylindrical, about one-third of the length of the second. Antennæ hardly ciliated. Thorax with a blackish band. Abdomen cinereous, with blackish crests, hardly extending beyond the hind wings. Fore wings with the black lines undulating and very incomplete; submarginal line testaceous, slightly undulating, traversing a row of marginal black streaks; some whitish specks along the costa; exterior border denticulated, discal spots with black borders; reniform with a testaceous mark, and with three white dots. Hind wings pure white, shining; borders brown; tips of the veins black; ciliæ testaceous. Length of the body $5\frac{1}{2}$ lines; of the wings 13 lines.

a. St. Domingo. From Mr. Tweedie's collection.

South America.

Group 1.

Like the third European group.

65. *HADENA TERENS*.

Cinerea; abdomen canum; alæ anticæ lituris costalibus lineisque undulatis nigris canisque, maculis discalibus albidis indistinctis nigro signatis et marginatis, lunulis marginalibus nigris; posticæ canæ, marginibus fuscescente-cinereis.

Cinereous. Abdomen hoary. Fore wings with black and hoary marks along the costa, and with black and hoary undulating lines, which are indistinct; discal spots whitish, with black centres

and borders, not distinct; a row of black marginal lunules. Hind wings hoary, with brownish cinereous borders. Length of the body 6 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

66. HADENA INTERMISSA.

Mas. *Cinerea; palpi erecti; abdomen canum, sexualibus magnis late fasciculatis; alæ anticæ lineis nigris undulatis incompletis albido marginatis, maculis discalibus magnis nigro albidoque marginatis, reniformi obscuriore; posticæ cunæ.*

Male. Cinereous. Palpi vertical; third joint about one-third of the length of the second. Antennæ distinctly ciliated. Abdomen hoary; appendages large, with long tufts. Fore wings with the lines undulating, black, incomplete, with whitish borders; discal spots large, with black and whitish borders; reniform darker and much larger than the orbicular. Hind wings hoary. Length of the body 6 lines; of the wings 14 lines.

a. Chili. From Mr. Bridges' collection.

Group 2.

Like the fourth European group.

67. HADENA MONILIS.

Rufo-fusca, alæ anticæ guttis costalibus quinque albis, lineis medianis obsoletis, linea submarginali e guttis flavo-albis, reniformi flavo-alba longa coarctata fusco notata albo strigata, orbiculari subobsoleta; posticæ sordide cinereæ, basi pallidiores, ciliis pallidis.

Hadena monilis, Guen. Noct. ii. 102, 818.

Brazil.

68. HADENA BASICARNEA.

Mas. *Rubra; palpi erecti; abdomen cinereum; alæ anticæ linea alba, extus cupréo-rufæ pallidiores linea informi albida; orbiculari lutea subrotunda, reniformi e gutta postica lutea, costa subapicali albo guttata, margine exteriori ciliis fuscis non denticulato; posticæ cinereæ.*

Male. Blood-red. Palpi erect, ascending to the vertex; third joint conical, not more than one-sixth of the length of the second. Antennæ hardly ciliated. Abdomen cinereous, extending very little beyond the hind wings. Fore wings having a white line with a broad glaucous border at two-thirds of the length, beyond which the red hue is paler, and has a cupreous tinge, and contains an irregular whitish line; orbicular spot luteous, nearly round; reniform spot distinguished by a luteous dot by its hind border; some white dots on the apical part of the costa; exterior border with brown ciliæ, not denticulated. Hind wings cinereous. Length of the body 6 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

Group 3.

Like the sixth European group.

69. HADENA SUBJECTA.

Mas. *Pallide cervina; thorax fasciis duabus nigricantibus late interruptis; abdomen pallide cinereum; alæ anticæ lituris costalibus et submarginalibus guttisque marginalibus nigris, fascia media lata diffusa fuscescente lineis duabus nigris angulosis inclusa, orbiculari et reniformi subæqualibus nigro ex parte marginatis; posticæ albæ, semihyalinæ, costa margineque interiore testaceis.*

Male. Pale fawn-colour. Third joint of the palpi minute. Antennæ distinctly ciliated. Thorax with two widely interrupted blackish bands. Abdomen pale cinereous. Fore wings with black costal and submarginal marks, and with a row of black marginal dots; ciliæ partly blackish; a broad diffuse brownish middle band, bordered on each side by an angulose black line; the other lines almost obsolete; orbicular and reniform spots with incomplete black borders, the former almost as large as the latter. Hind wings white, semihyaline, testaceous in front and along the interior border. Length of the body 5 lines; of the wings 12 lines.

Brazil. In Mr. Saunders' collection.

Group?

70. HADENA ? GLAUCA.

Fusca ; abdomen cervinum ; alæ anticæ purpureo-glaucescens, lituris variis fasciisque cervinis ; posticæ cervinæ, ciliis pallidioribus.

Phalæna-Noctua Glauca, Cram. Pap. Exot. iv. 45, pl. 311, f. G.

Surinam.

71. HADENA ? TANAIS.

Cervina ; alæ anticæ nigro fasciatæ et antice maculatæ ; posticæ fuscæ, fasciis duabus posticis pallidioribus.

Phalæna Tanaïs, Cram. Pap. Exot. i. 106, pl. 68, f. D.

Acolasis Tanaïs, Hübn. Verz. Schmett. 256, 2522.

Surinam.

72. HADENA ? PLACIDA.

Fusca ; abdomen testaceum fasciis fuscis ; alæ anticæ lineis transversis nigris et glaucescentibus, macula postica nigra glaucescente marginata, guttis submarginalibus nigris ; posticæ basi strigisque duabus apud angulum interiorem testaceis.

Phalæna-Noctua Placida, Cram. Pap. Exot. iv. 134, pl. 359, f. 3.

Surinam.

73. HADENA PSITTACUS.

Viridis ; abdomen cinereum ; alæ anticæ costa flavescens, ciliis luteis, fasciis variis, macula postica plagaque discali nigris, orbiculari et reniformi nigris viridi marginatis ; posticæ nigricantes, ciliis luteis.

Noctua psittacus, Moriz, MSS. Herr.-Schæff. Lep. Exot. Sp. Nov. f. 216.

Venezuela.

74. *HADENA?* *BIPARTITA*.

Cinerea; *alæ antica* dimidio *basali viridescente*, *fasciis mediis basaliq̃ue fusciscentibus nigro marginatis*, *illis antice approximatis*, *guttis discalibus*, *fascia exteriori maculari*, *macula subapicali extus rufo lineata*, *linea submarginali guttisq̃ue marginalibus nigris*; *posticæ basi albidæ*.

Noctua bipartita, *Herr.-Schæff. Lep. Exot. Sp. Nov. f. 128.*
Surinam.

Africa.

Group 1.

Like the second European group.

75. *HADENA* *DEPULSA*.

Mas et fœm. Fusco-cinerea; *palpi porrecti*; *thorax fascia antica tenui nigra*; *abdomen maris apice cervino pilosum*; *alæ anticæ nigro-cinereæ*, *lineis nigris undulatis testaceo marginatis*, *maculis testaceis obliquis postice approximatis albido marginatis*, *orbiculari maculaq̃ue postica intermedia testacea connexis*, *lunulis marginalibus nigris*, *ciliis basi albido-testaceo guttatis*; *posticæ pallide cinereæ*, *marginibus latis fusco-cinereis*.

Male and female. Brownish cinereous. Palpi porrect. Antennæ very minutely ciliated. Thorax with a slender black band in front. Abdomen of the male with fawn-coloured apical hairs. Fore wings blackish cinereous; transverse lines black, undulating, with pale testaceous borders; discal spots testaceous, oblique, inclined to each other hindward, with whitish borders, the orbicular connected with a testaceous intermediate mark; marginal lunules black, very slender; ciliæ with whitish testaceous basal dots. Hind wings pale cinereous, with broad brownish cinereous borders. Length of the body 5 lines; of the wings 14 lines.

a, b. Cape. From M. Dregé's collection.

Group 2.

Like the fifth European group.

76. *HADENA CONSUMMATA*.

Mas. *Nigro-fusca; caput ferrugineum; thorax margine antico vittaque ferrugineis; abdomen pallidum, apice fulvum; alæ anticæ guttis costalibus et marginalibus albidis, lineis nigris undulatis, maculis nigro marginatis, orbiculari subobliqua, reniformi cervino maculata, strigis exterioribus nigris testaceo notatis; posticæ fusciscente-cinereæ.*

Male. Blackish brown. Head ferruginous. Third joint of the palpi cylindrical, about one-third of the length of the second. Antennæ very minutely ciliated. Thorax ferruginous in front, and with a ferruginous stripe. Abdomen a little paler than the thorax, tawny at the tip. Fore wings with minute whitish costal and marginal dots; transverse lines undulating, black, the two exterior almost obsolete; discal spots with black borders; claviform with a black disk; orbicular slightly oblique, hardly half the size of the reniform, which contains a fawn-coloured spot; an exterior row of cuneiform black streaks, which contain testaceous marks. Hind wings brownish cinereous. Length of the body 9 lines; of the wings 20 lines.

Port Natal. In Mr. Saunders' collection.

Group 3.

77. *HADENA? CINCTITHORAX*.

Mas. *Pallide cervina; thorax nigro fasciatus; abdomen albido-testaceum; alæ anticæ lituris costalibus guttisq[ue] marginalibus nigris, maculis duabus subapicalibus nigricantibus, linea submarginali e guttis nigris, maculis discalibus nigris cinereo notatis, orbiculari parva; posticæ albæ.*

Male. Pale fawn-colour. Palpi ascending; third joint not more than one-fourth of the length of the second. Antennæ slightly ciliated. Thorax with a black band. Abdomen whitish testaceous. Fore wings with some black marks along the costa, and with black marginal dots; two blackish spots on the fore part between the border and the submarginal line, which is composed of black dots, and is rather remote from the border; the other lines indicated by a few black dots; discal spots black, with cinereous

marks, the orbicular about half the size of the reniform. Hind wings white; under side with a row of small black streaks, and with black marginal dots. Length of the body 5 lines; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

78. HADENA ? LUTESCENS.

Flava; abdomen cinereum; alæ anticæ olivaceo nebulosæ, fasciis angulosis interruptis, macularum marginibus, macula postica guttisque ciliaribus albis; posticæ cinereæ, fascia obscuriore, margine exteriori pallidiore.

Noctua lutescens, Herr.-Schæff. Lep. Exot. Sp. Nov. f. 127.

Cape.

This species may belong to the genus *Polia*.

Asia.

Group 1.

Like the second European group.

79. HADENA INDISTANS.

Mas et fœm. Corticino-fusca, H. oclusæ similis; alæ anticæ subdenticulatæ, lineis maculisque obscurioribus, macula discali subquadrata nigricante, linea submarginali e angulis ochraceis nigricante marginatis, margine exteriori obscuriore, reniformi indistincta cinereo conspersa; posticæ fusco-cinereæ, basi pallidiores.

Hadena indistans, Guen. Noct. ii. 87, 786.

Central Hindostan.

80. HADENA SUBCURVA.

Mas. Nigro-ferruginea, subtus testacea; palpi erecti; antennæ vix ciliatæ; abdomen cinereum; alæ anticæ lineis nigris undulatis indistinctis ferrugineo submarginatis, strigis duabus exterioribus lunulisque marginalibus nigris, his ferrugineo marginatis, orbiculari et reniformi indistinctis, hac ferrugineo gutta, margine exteriori denticulato; posticæ æneæ, antice cinereæ, ciliis albidis.

Male. Blackish ferruginous, testaceous beneath. Palpi vertical, testaceous beneath; third joint lanceolate, about one-fourth of the length of the second. Antennæ almost bare. Abdomen cinereous, crested, hardly extending beyond the hind wings. Fore wings with the transverse lines black, undulating and indistinct, with somewhat ferruginous borders; two exterior black streaks; marginal lunules black, with ferruginous border; orbicular and reniform spots indistinct, the latter marked by a ferruginous dot; exterior border denticulated. Hind wings æneous, cinereous in front, with whitish ciliæ; under side cinereous, with a brown discal spot and an æneous border. Length of the body 5 lines; of the wings 12 lines.

a. Ceylon. From the Rev. J. Wenham's collection.

81. HADENA NIVEIPLAGA.

Mas. *Nigro-fusca, subcinerascens; alæ anticæ lituris costalibus lineisque undulatis duplicatis, lunulisque marginalibus nigris, maculis nigro marginatis, reniformi albo guttata, margine exteriore subdenticulato; posticæ obscure cinereæ.*

Male. Blackish brown, with a slight cinereous tinge. Palpi obliquely ascending; third joint cylindrical, slender, hardly more than one-fourth of the length of the second. Antennæ minutely ciliated. Fore wings with black costal marks, and with double undulating black lines, the space between each pair almost black; a row of black marginal lunules; discal spots with black borders; orbicular indistinct, reniform distinguished by the white spot which occupies its disk; exterior border slightly denticulated. Hind wings dark cinereous; under side with a black discal spot, and an exterior black transverse line. Length of the body $6\frac{1}{2}$ lines; of the wings 17 lines.

Hindustan. In Mr. Saunders' collection.

Group 2.

Like the third European group.

82. HADENA CONSANGUIS.

Pallidissime ochracea; thorax cineráscente varius; alæ anticæ cinereo nebulosæ, dimidiò exteriore rufescente tincto, lineis punctisque confusis, submarginali distincta maculisque exterioribus ferrugineis approximatis, orbiculari et reniformi fere contiguïs, hac angusta, illa rotundata pallida, claviformi e annulo fusco; posticæ nigricantes, basi albæ.

Hadena consanguis, *Guen. Noct.* ii. 97, 810.

Central Hindostan.

Group 3.

Like the fourth European group.

83. *HADENA POSTICA*.

Fœm. *Obscure ferruginea, subtus albida; abdomen cinereum, crista nigricante; tarsi fasciis pallidis; alæ anticæ denticulatæ, sat angustæ, lineis nigris incompletis, linea submarginali obsoleta, orbiculari et reniformi guttisque costalibus et marginalibus pallide ferrugineis, strigis duabus exterioribus informibus nigris; posticæ cupreæ, basi cinereæ.*

Female. Very dark ferruginous, whitish beneath. Palpi obliquely ascending, whitish beneath; third joint conical, not more than one-sixth of the length of the second. Abdomen cinereous, with a blackish crest. Tarsi with pale bands. Fore wings rather narrow, denticulated along the exterior border; transverse lines black, irregular and incomplete; submarginal line obsolete; discal spots pale ferruginous; two dislocated black streaks proceeding from near the reniform spot to the exterior border; some pale ferruginous costal and marginal dots. Hind wings cupreous, cinereous towards the base. Length of the body 6 lines; of the wings 14 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Group —?

84. *HADENA? ARIDA*.

Mas. *Sordide flavescens; palpi ascendentes, articulo 2o cylindrico; alæ anticæ lineis transversis distinctis undulatis, orbiculari et reniformi conspicuis pallido marginatis, illa obliqua elongata; posticæ pallide flavo-cinereæ, ciliis pallidioribus, linea discali nigricante.*

Hadena arida, *Lederer, Verhandl. Zool. Botan. Verein in Wien.* v. 108, f. 7.

Altai, Siberia.

85. HADENA FELINA.

Alæ anticæ cinerascence-albæ, margine externo, costa maculisque tribus costalibus nigris; posticæ nigricantes, basi pallidiores.

Hadena felina, Eversm. *Bull. Soc. Imp. Nat. Mosc.* 1852, 1, 156, 6.

Russian Armenia.

86. HADENA? BIDENS.

Alæ anticæ nigricantes, nigro adumbratæ; linea transversa externa lineaque submarginali albidis, hac medio bidentata; maculis ordinariis albido circumscriptis; posticæ nigricante-cinereæ, fascia lata terminali nigra.

Hadena bidens, Eversm. *Bull. Soc. Imp. Nat. Mosc.* 1852, 1, 153, 3.

East Siberia.

87. HADENA? FURCA.

“Alæ anticæ e purpurascence-fuscescentes, fusco adumbratæ; striga submarginali dentibus duobus acutis instructa; macula interna ordinaria lineari, obliqua foras, sub venam medianam in dentes duos acutissimos excurrente, albida; posticæ fuscescente-cinereæ, externe nigricantes.”

Hadena furca, Eversm. *Bull. Soc. Imp. Nat. Mosc.* 1852, 1, 154, 4.

East Siberia.

88. HADENA TRISIGNATA.

“Thorax et abdomen subcinerea, hoc infuscatum; alæ anticæ subcinereo-fuscescentes, lineis tribus longitudinalibus (2 basi, altera discali) aterrimis,—maculis ordinariis fusco circumscriptis externa alba,—strigis ordinariis cinereo pallidis, submarginali albo denticulata; posticæ sericeo albida, externe fusco adumbratæ.”

Hadena trisignata, Ménétriés, *Mém. Acad. Imp. Sci. St. Petersb.* 6me Sér. *Sci. Nat.* vi. 286, 835, pl. 6, f. 9.

Tureomania.

Australia.

Group 1.

Like the first European group.

89. HADENA APLECTOIDES.

Mas. *Alba, cinereo conspersa; alæ anticæ subdenticulatæ, spatio medio fusco-nigro, lineis angulosis, orbiculari et reniformi approximatis albis disco fuscis nigro marginatis, illa ovata obliqua, claviformi nigra oblonga, linea submarginali vaga postice nigro nebuloza; posticæ nigricantes, lineis duabus pallidis subobsoletis.*

Hadena aplectoides, Guen. Noct. ii. 83, 777.

Australia.

Group 2.

Like the second European group.

90. HADENA EXPULSA.

Var.? Fœm. *Fusca; thorax albido conspersus; abdomen cinereum; alæ anticæ denticulatæ, lineis nigris undulatis, mediana exterior et submarginali albido marginatis, hac subundulata, maculis nigro marginatis, orbiculari magna subobliqua apud medium contracta, reniformi ex maxima parte alba, ciliis albido strigosis; posticæ æneo-fuscæ, basi cinereæ, ciliis ex parte albidis.*

Hadena expulsa, Guen. Noct. ii. 93, 800.

Var.? *Female.* Brown. Palpi ascending; third joint conical, not more than one-sixth of the length of the second. Thorax with whitish speckles. Abdomen cinereous, crested. Fore wings denticulated; lines black and undulating; exterior median line and submarginal line with whitish borders, the latter slightly undulating; spots bordered with black; orbicular slightly oblique, as large as the reniform, contracted in the middle; reniform mostly white; ciliæ with whitish stræaks. Hind wings æneous-brown, cinereous towards the base; ciliæ partly whitish. Length of the body 6 lines; of the wings 16 lines.

a. Tasmania. From Mr. A. J. Smith's collection.

91. *HADENA FAMILIARIS*.

Ferruginea ; palpi porrecti ; antennæ subciliatæ, sat validæ ; thorax lituris nonnullis nigro-fuscis ; abdomen cinereo-fuscum ; alæ anticæ subdenticulatæ, lineis undulatis duplicatis nigris et pallidis, linea submarginali et striga antica pallida approximatis, orbiculari magna indistincta, reniformi apud discum alba, lunulis marginalibus nigris ; posticæ æneo-fuscæ, ciliis pallidis.

Ferruginous. Palpi porrect ; third joint cylindrical, about one-third of the length of the second. Antennæ rather stout, very minutely ciliated. Thorax with some blackish brown marks. Abdomen cinereous-brown, hardly extending beyond the hind wings. Fore wings with the transverse lines undulating, double, black and pale ; costa with corresponding marks ; submarginal line accompanied by a pale streak in front ; orbicular spot indistinct, nearly as large as the reniform, which has a white disk ; a row of black lunules along the exterior border, which is slightly denticulated. Hind wings æneous-brown, with pale ciliæ. Length of the body 6 lines ; of the wings 14 lines.

a. Tasmania. From Mr. A. J. Smith's collection.

92. *HADENA TRIJUNCTA*.

Cana ; palpi vix ascendentes, articulo 3o minimo ; abdomen cinereum, cristis fuscis optime determinatis ; alæ anticæ apud medium obscuriores, lineis nigris distinctis, maculis nigro marginatis, orbiculari subrotunda, linea submarginali albida angulosa, strigis marginalibus nigris, ciliis fuscis apud venas albis ; posticæ cupreo-fuscæ, ciliis albis.

Hoary. Palpi hardly ascending ; third joint elongate-conical, hardly one-fourth of the length of the second. Abdomen cinereous ; crests brown, high. Fore wings with the basal and median lines black, distinct ; middle space darker than the wing elsewhere ; spots with black borders ; orbicular and reniform spots contiguous to the hind spot, but not to each other ; orbicular nearly round ; submarginal line whitish, angulose, accompanied by black streaks ; ciliæ brown, white opposite the veins. Hind wings cupreous-brown, with white ciliæ. Length of the body 7 lines ; of the wings 14 lines.

a. Tasmania. Presented by J. G. Children, Esq.

Group 3.

Like the third European group.

93. HADENA LUTRA.

Var. ? *Mas.* *Ferruginea* ; palpi erecti ; thorax fasciis nigricantibus ; abdomen nigro-cinereum, cristatum ; alæ anticæ subdenticulatæ, apud marginem exteriorem nigro-cinereæ, lineis nigris duplicatis undulatis indistinctis, submarginali testacea subundulata, maculis testaceo nigroque marginatis, reniformi testaceo notata, margine postice albo, macula exteriore testacea ; posticæ cupreo-fusca, basi cinereæ, ciliis ex parte albis.

Hadena Lutra, *Guen. Noct.* ii. 94, 802.

Var. ? *Male.* Ferruginous. Palpi vertical ; third joint conical, not more than one-sixth of the length of the second. Antennæ distinctly ciliated. Thorax with blackish bands. Abdomen blackish cinereous, crested. Fore wings slightly denticulated, grayish black between the submarginal line and the exterior border, and with a tinge of the same near the posterior angle ; the usual lines black, double, undulating, indistinct ; submarginal line testaceous, slightly undulating ; discal spots with testaceous and black borders ; orbicular oblique ; reniform with the testaceous border dilated, with a testaceous discal mark, and with the hind part of the border white ; a testaceous spot between it and the submarginal line. Hind wings cupreous-brown, cinereous towards the base ; ciliæ partly white. Length of the body 7 lines ; of the wings 16-lines.

a. Tasmania. Presented by Morton Allport, Esq.

94. HADENA CONGREGATA.

Fœm. *Cinerea* ; palpi suberecti ; thorax nigro conspersus ; alæ anticæ nigro conspersæ, lineis nigris duplicatis undulatis indistinctis incompletis, submarginali e strigis nigris, lunulis marginalibus nigris minutis, orbiculari parva albida rotunda ; reniformi nigricante, strigis duabus albidis ; posticæ cinereæ.

Female. Cinereous. Palpi ascending, nearly vertical ; third joint conical, not more than one-fourth of the length of the second. Thorax speckled with black. Abdomen extending very little beyond the hind wings. Fore wings speckled with black ; transverse

lines black, double, undulating, indistinct and incomplete; sub-marginal line marked by black streaks; marginal lunules black, minute; orbicular spot small, whitish, round; reniform blackish, with two whitish streaks. Hind wings cinereous. Length of the body 6 lines; of the wings 14 lines.

a. Tasmania. From Mr. A. J. Smith's collection.

Group 4.

Like the fourth European group.

95. HADENA BISTRIGULA.

Mas. *Ferrugineo-fusca, subtus cinerea; antennæ serratæ; thorax cinereo fasciatus; abdomen cinereum; alæ anticæ lineis undulatis indistinctis pallide ferrugineis et nigricantibus, submarginali subrecta strigisque nigris interioribus approximatis, guttis marginalibus testaceis, orbiculari e gutta, reniformi e strigis duabus albis; posticæ æneo-cinereæ, ciliis albidis.*

Male. Ferruginous-brown, cinereous beneath. Palpi partly cinereous, stout, short, ascending; third joint conical, nearly one-third of the length of the second. Antennæ serrated. Thorax with cinereous bands. Abdomen cinereous, hardly extending beyond the hind wings. Fore wings with the lines pale ferruginous and blackish, undulating, not distinct; submarginal line nearly straight, accompanied by some black streaks on its inner side; a row of testaceous marginal dots; orbicular and reniform spots distinguished by white marks, orbicular by a dot, reniform by two streaks, of which the outer one is curved and dilated in the middle. Hind wings cinereous, with a slight æneous tinge; ciliæ whitish. Length of the body 6 lines; of the wings 14 lines.

a, b. Australia. Presented by Major-General Hardwicke.

c. Tasmania. From Mr. A. J. Smith's collection.

d. Adelaide. From Mr. Stevens' collection.

96. HADENA EXTIMA.

Fœm. *Cinereo-nigra, subtus cinerea; palpi subascendentes; abdomen obscure cinereum, cristis nigris; alæ anticæ lineis atris undulatis indistinctis, orbiculari et reniformi magnis atro marginatis, illa majore, margine exteriori vix denticulato; posticæ fuscescentes, antice albidæ.*

Female. Grayish black, cinereous beneath. Palpi slightly ascending; second joint rather long; third conical, not one-fourth of the length of the second. Abdomen dark cinereous, with black crests, extending a little beyond the hind wings. Fore wings with the usual lines deep black, undulating, indistinct; spots large, with deep black borders; orbicular rather larger than the reniform; exterior border very slightly denticulated. Hind wings brownish, whitish in front. Length of the body 5 lines; of the wings 14 lines.

a. Australia. Presented by Sir G. Grey.

Group 5.

Like the fifth European group.

97. HADENA PUNCTISIGNA.

Mas. *Ferruginea*; *antennæ subsetaceæ*; *thorax fusco fasciatus*; *abdomen cinereum*; *alæ anticæ lituris costalibus nigris pallidisque, lineis transversis angulosis pallidis nigro marginatis, linea submarginali undulata, venis marginalibus nigro-cinereo nebulosis, lunulis marginalibus nigris, orbiculari et reniformi nigro marginatis, postice nigro-cinereo nebulosis, orbiculari magna, reniformi testacea; posticæ ferrugineo-cinereæ, ciliis rufescentibus.*

Male. Ferruginous. Third joint of the palpi cylindrical, about one-third of the length of the second. Antennæ minutely setaceous. Thorax with brown bands. Abdomen cinereous. Fore wings with black and pale marks along the costa; transverse lines angulose, pale, with blackish borders; submarginal line undulating, the veins between it and the exterior border clouded with blackish gray; a row of black marginal lunules; a large brown patch behind the discal spots, which are mostly bordered with black, and have their hind parts clouded with blackish gray; orbicular spot elongated, oblique, larger than the reniform, which is mostly testaceous. Hind wings cinereous, with a ferruginous tinge; ciliæ reddish. Length of the body 7 lines; of the wings 18 lines.

a. Tasmania. From Mr. A. J. Smith's collection.

b. Tasmania. Presented by Morton Allport, Esq.

Group 6.

Like the sixth European group.

98. *HADENA ASPERA*.

Cinerea; thorax lineis duabus obliquis lateralibus nigris; abdomen canum; alæ anticæ lineis tribus nigris et albis undulatis optime determinatis, submarginali valde indistincta, lunulis marginalibus nigris, maculis albis disco cinereis nigro marginatis, orbiculari elliptica vix obliqua, reniformi extus valde excavata; posticæ albæ, cinereo marginatæ, lunulis marginalibus nigris.

Cinereous. Thorax with a black oblique line on each side. Abdomen hoary. Fore wings with three very distinct undulating black and white lines; submarginal line very indistinct; a row of black marginal lunules; spots white, very distinct, with cinereous centres and black borders; orbicular elliptical, hardly oblique; reniform much excavated on the outer side. Hind wings white, with cinereous borders and black marginal lunules. Length of the body 7 lines; of the wings 14 lines.

a. Australia. From Mr. Argent's collection,

New Zealand.

Group 1.

Like the second European group.

99. *HADENA PICTULA*.

Mas. Nigricante-fusca; caput et thorax luteo varia; abdomen roseo bivittatum, cristis luteis; pedes ex parte lutei; alæ anticæ glauco-cinereæ, lineis maculisque distinctis luteis nigrisque, costa basi subtus rosea; posticæ æneo-fuscæ, subtus disco roseo, macula nigricante.

Dianthecia pictula, White, Taylor, *Te Ika a mani*, New Zealand, pl. 1, f. 3.

New Zealand.

Male. Blackish brown. Head and thorax with luteous stripes and bands. Abdomen with a broad bright rosy stripe on

each side; crests luteous. Legs partly luteous. Fore wings glaucous-gray; the lines and spots distinct, luteous and black; costa rosy at the base beneath. Hind wings æneous-brown; under side rosy; discal spot blackish; border æneous-brown. Length of the body 7 lines; of the wings 16 lines.

a. New Zealand. From M. Dohrn's collection.

b. New Zealand. Presented by Col. Bolton.

Group 2.

Like the sixth European group.

100. HADENA MUTANS.

Mas et fœm. *Pallide cinerea; thorax fascia antica arcuata nigra; alæ anticæ apud discum cervino et nigro-cinereo nebulosæ, lituris costalibus vitta discali venisque nigris, lineis subobsoletis, submarginali distincta albida subundulata nigro-fuscoque marginata, orbiculari et reniformi distinctis ex parte nigro marginatis, illa obliqua; posticæ cinereæ, ciliis albidis.*

Var. *Alæ anticæ disco vix nebuloso, vitta nigra subobsoleta.*

Allied to *Xylina*. *Male and female.* Pale cinereous. Third joint of the palpi cylindrical, full one-third of the length of the second. Antennæ of the male minutely ciliated. Thorax with a black curved band in front. Fore wings with black marks along the costa; most of the disk clouded with fawn-colour and with blackish gray; lines almost obsolete, except the submarginal one, which is distinct, whitish, slightly undulating, bordered on each side by black and brown, and interrupted by the black veins; a black discal stripe, dilated towards its tip, and widely interrupted by the space which includes the black-bordered claviform spot; orbicular and reniform spots distinct, partly bordered with black, the former oblique, a little more than half the size of the latter. Hind wings cinereous, with whitish ciliæ.

Var. Fore wings with the disk hardly clouded; black stripe obsolete, except at each end. Length of the body 6—7 lines; of the wings 14—16 lines.

a—i. New Zealand. Presented by Col. Bolton.

j. New Zealand. Presented by the Rev. W. Colenso.

k. New Zealand. Presented by Dr. Sinclair.

101. HADENA LIGNIFUSCA.

Mas. *Fuscescens*; thorax fascia angulata nigra; abdomen pallidum; alæ anticæ lituris costalibus, striga basali strigaeque postica nigris, lineis transversis subobsoletis, orbiculari et reniformi pallido marginatis, guttis paucis costalibus subapicalibus albis, linea submarginali distincta undulata albida nigro marginata, venis marginalibus nigris; posticæ cinereæ.

Male. Wood-coloured brown. Thorax with an angular black band. Abdomen paler than the thorax. Fore wings with black marks along the costa, with a black basal streak, and with a broader black streak, which, however, varies in size near the posterior angle; transverse lines very indistinct; claviform very distinct; orbicular and reniform with paler borders, of the usual form; two or three minute white dots near the tip of the costa; submarginal line distinct, undulating, whitish, with black borders; veins black between it and the border. Hind wings cinereous. Length of the body 6—7 lines; of the wings 14—16 lines.

a—c. New Zealand. Presented by Col. Bolton.

Genus 23. HORMA.

Corpus robustum. Proboscis brevis. Palpi validi, porrecti, caput paullo superantes; articulus 3us minimus. Antennæ corporis dimidio vix longiores. Abdomen alas posticas paullo superans. Pedes validi, pilosi; tibiæ posticæ calcaribus quatuor longis. Alæ sat angustæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori mediocriter obliquo. **Mas.**—Antennæ sat pectinatæ.

Body stout. Proboscis short. Palpi stout, pilose, porrect, extending a little beyond the head; third joint extremely minute. Antennæ about half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout, pilose; hind tibiæ with four long spurs. Wings rather narrow. Fore wings straight in front, rounded at the tips, moderately oblique along the exterior border. **Male.**—Antennæ moderately pectinated.

1. HORMA ÆRUGINEA.

Canescens; thorax fusco fasciatus; alæ anticæ fascia lata antice dilatata maculas includente lineis duabus nigris marginata, lituris costalibus lineolisque marginalibus nigris, maculis albido variis; posticæ albæ.

Noctua æruginea, *Hübner. Eur. Schmett. Noct. f. 374. Dup. Hist. Nat. Lép. Fr. vi. 301, pl. 94, f. 6. Frey. Beit. iii. pl. 237.*

Hadena æruginea, *Treit. Schmett. v. 355. Guen. Ind. 244: Noct. ii. 90, 792. Boisd. Ind. Méth. 954. Herr.-Schæff. Eur. Schmett. ii. 281, 309.*

Dichonia æruginea, *Hübner. Verz. Schmett. 217, 2174.*

Var. Noctua mioleuca, *Hübner. Noct. f. 745, 746.*

Noctua chioleuca? *Frey. Beit. iii. pl. 279, f. 2, 3.*

Hadena mioleuca, *Herr.-Schæff. Eur. Schmett. ii. 281, 308.*

Hadena chioleuca, *Treit. Suppl. 46.*

France. Austria. Italy. Hungary.

a.—d. Europe. From M. Becker's collection.

2. HORMA MIOLEUCA.

Hadena mioleuca, *Treit. Schmett. Suppl. 43. Guen. Noct. ii. 90, 793.*

Sicily.

3. HORMA? BOMBYCINA.

Antennæ pectinatæ; alæ anticæ fusæ, cinereo nebulosæ, macularum ordinariorum marginibus, venis dentibusque duobus externis albis; macula reniformis basi lata.

Hadena bombycina, *Eversm. Bull. Soc. Imp. Nat. Mosc. xx. 378, 14, pl. 6, f. 1, 2.*

Hadena leucophora, *Eversm. Faun. Lepid. 222, 9.*

Ural Mountains.

4. HORMA? BOMBYCIA.

Alæ anticæ nigro-fusæ, lineis duabus transversis crenulatis nigris; venis, maculis ordinariis ciliisque uniformibus subcinereis; alæ posticæ subcinereo-nigricantes.

Hadena Bombycia, *Eversm. Bull. Soc. Imp. Nat. Mosc. 1851, xxiv. No. 2, 632, 19.*

Eastern Siberia.

Genus 24. ERANA.

Mas. Corpus sat validum. Proboscis mediocriter longa. Palpi porrecti, caput paullo superantes; articulus 3us minutus. Antennæ simplices, corporis dimidio multo longiores. Thorax cristatus. Abdomen cristatum, alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice subrotundatæ, margine exteriore vix obliquo; posticæ latæ, margine antico dilatato fasciculato.

Male. Body moderately stout. Proboscis moderately long. Palpi porrect, extending a little beyond the head; third joint not more than one-fourth of the length of the second. Antennæ simple, much more than half the length of the body. Thorax and abdomen crested, the latter extending a little beyond the hind wings. Legs stout; hind tibiæ with long spurs. Fore wings moderately broad, straight in front, somewhat rounded at the tips, hardly oblique along the exterior border. Hind wings broad, dilated, and with a tuft of long hairs in front.

1. ERANA GRAMINOSA.

Mas. Flavo-viridis; thorax antice nigro fasciatus; abdomen flavo-cinereum; tarsi nigro fasciati; alæ anticæ lineis angulosis albidis nigro marginatis, lituris costalibus nigris, orbiculari et reniformi albis nigrisque non bene determinatis; posticæ cinereæ, lunulis posticis nigris albo marginatis.

Male. Yellowish green. Thorax with a transverse black line in front. Abdomen yellowish cinereous. Tarsi with black bands. Fore wings with whitish black-bordered zigzag lines, and with corresponding black marks along the costa; external line broader and with a broader border; discal spots whitish and black, not very distinctly marked. Hind wings cinereous, with black white-bordered slender marginal lunules. Length of the body 7 lines; of the wings 16 lines.

a. New Zealand. From Mr. Churton's collection.

Genus 25. CASANDRIA.

Mas. Corpus robustum. Proboscis mediocriter longa. Pâlpi porrecti, validi, caput paullo superantes; articulus 3us minimus. Antennæ subciliatæ, sat validæ. Abdomen alas posticas triente superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ longæ, mediocriter latæ, apud costam rectæ, apice rotundatæ, margine exteriore vix obliquo.

Male. Body stout. Proboscis moderately long. Palpi porrect, stout, extending a little beyond the head; third joint not more than one-sixth of the length of the second. Antennæ rather stout, very minutely ciliated. Abdomen extending for one-third of its length beyond the hind wings. Legs stout; hind tibiæ with long spurs. Fore wings long, moderately broad, quite straight in front, rounded at the tips, hardly oblique along the exterior border.

1. CASANDRIA EMITTENS.

Fœm. *Pallidissime cervina; thorax antice fuscens; alæ anticæ vix viridi tinctæ, nigro subconspersæ, lituris costalibus nigris, lineis subobsoletis, una exteriore fusca recta intus nigro marginata, striga nigra fasciaque viridescente exterioribus, macula magna costali nigro-cinerea guttisque duabus strigae approximatis nigris, guttis submarginalibus nigris albisque, lunulis marginalibus nigris minimis, ciliis nigro maculatis, orbiculari et reniformi albido marginatis, illa transversa non obliqua; posticæ albidæ iridescentes subhyalinæ, marginibus latis fuscescentibus.*

Female. Very pale fawn-colour. Thorax brownish in front. Fore wings slightly flecked with black, with an indistinct green tinge and with transverse black marks along the costa; transverse lines almost obsolete, excepting one beyond the reniform spot, which line is brown, straight, and not oblique, and is accompanied on its inner side by a black line, the latter emitting a black streak towards the exterior border; this streak joins an indistinct greenish band which is united to a large blackish gray costal spot; the latter has on its outer side two black dots and a black streak, which joins the third of the black and white submarginal dots; marginal lunules black and very small; ciliæ with blackish spots; orbicular and reniform spots and a mark behind them with whitish borders; orbicular transverse, not oblique. Hind wings whitish, iridescent,

slightly hyaline, with broad brownish borders. Length of the body 10 lines; of the wings 22 lines.

a. Jamaica. In Mr. Saunders' collection.

Genus 26. PSAPHARA.

Mas. Corpus sat gracile. Proboscis mediocriter longa. Palpi validi, pilosi, subascendentes, caput superantes; articulus 3us conicus, parvus. Antennæ pectinatæ. Abdomen alas posticas triente superans. Pedes longiusculi, sat graciles; tibiæ posticæ calcaribus longis. Alæ sat angustæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriore subdenticulato sat obliquo.

Male. Body rather slender. Proboscis moderately long. Palpi stout, pilose, slightly ascending, extending beyond the head; third joint conical, not more than one-fourth of the length of the second. Antennæ moderately pectinated. Abdomen extending about one-third of its length beyond the hind wings. Legs rather long and slender; hind tibiæ with four long spurs. Wings rather narrow. Fore wings straight in front, rounded at the tips, rather oblique along the exterior border, which is slightly denticulated.

1. PSAPHARA INTERCLUSA.

Mas. *Cervina; thorax subfuscescens; alæ anticæ nitentes, lineis valde incompletis e guttis fuscis, linea submarginali pallidissime fusca diffusa indeterminata e strigis lanceolatis, lunulis marginalibus fuscis, orbiculari obsoleta, reniformi e litura fusca; posticæ pallidissime cinereæ, marginibus subcervinis, ciliis albidis.*

Male. Fawn-colour. Thorax slightly brownish. Abdomen very pale fawn-colour. Fore wings shining, with the transverse lines very incomplete, composed of brown dots; submarginal line very pale brown, very diffuse and indistinct, composed of lanceolate streaks; marginal lunules brown; orbicular spot obsolete; reniform distinguished by a brown mark. Hind wings very pale cinereous, slightly fawn-coloured about the borders; ciliæ whitish. Length of the body 8 lines; of the wings 16 lines.

a. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

Genus 27. STIBÆRA.

Mas. Corpus sat gracile. Proboscis mediocriter longa. Palpi subarcuati, vix ascendentes, caput perpaullo superantes; articulus 3us conicus, minimus. Antennæ nudæ, corporis dimidio non longiores. Abdomen longum, vix cristatum, alas posticas triente superans. Pedes vix robusti; tibiæ posticæ calcaribus longis. Alæ longiusculæ, mediocriter latæ; anticæ apud costam vix convexæ, apice acutæ, margine exteriori subdenticulato vix obliquo.

Male. Body rather slender. Proboscis moderately long. Palpi very slightly curved, hardly ascending, extending very little beyond the head; third joint conical, not more than one-sixth of the length of the second. Antennæ bare, hardly half the length of the body. Abdomen long, hardly crested, extending for one-third of its length beyond the hind wings. Legs hardly stout; hind tibiæ with four long spurs. Wings moderately broad, rather long. Fore wings hardly convex in front, acute at the tips, slightly denticulated, and hardly oblique along the exterior border.

1. STIBÆRA COSTIPLAGA.

Mas. *Pallide flavo-viridis; caput et thorax anticus fusca; abdomen cinereum, apice testaceum; alæ anticæ plagis tribus costalibus fuscis albo marginatis, lineis solitis maculisque subobsoletis, lineis duabus guttularibus maculisque duabus exterioribus fuscis; posticæ cinereæ, ciliis albidis.*

Male. Pale yellowish green. Head and fore part of the thorax brown. Abdomen cinereous, testaceous at the tip. Fore wings with three brown white-bordered patches along the costa, the largest at the base, the smallest in the middle; lines and discal spots almost obsolete; two exterior rows of brown dots, the inner one opposite the third patch, and accompanied by two brown spots on its outer side. Hind wings cinereous, with whitish ciliæ. Length of the body 9 lines; of the wings 22 lines.

a. Brazil. From Mr. Stevens' collection.

Genus 28. ELYMIOTIS.

Mas. Corpus sat validum. Proboscis longiuscula. Palpi validi, ascendentes, pilosissimi; articulus 3us minimus. Antennæ serratæ. Abdomen elongatum, cristatum, alas posticas triente superans. Pedes longiusculi, sat graciles; tibiæ posticæ calcaribus longissimis. Alæ sat amplæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriori denticulato mediocriter obliquo.

Male. Body moderately stout. Proboscis rather long. Palpi stout, ascending, very pilose; third joint very minute. Antennæ serrated. Abdomen elongated, crested, extending for one-third of its length beyond the hind wings. Legs rather long and slender; hind tibiæ with very long spurs. Wings rather ample. Fore wings quite straight in front, somewhat rounded at the tips, denticulated and moderately oblique along the exterior border.

1. ELYMIOTIS NOTODONTOIDES.

Mas. *Cana, ex parte subfuscescens; caput et thorax anticus obscure fusca; abdomen pallide fuscescens, apice nigricans; alæ anticæ lineis nigris undulatis duplicatis incompletis, ex parte nigro conspersæ, strigis duabus exterioribus nigris, linea submarginali albida, lunulis submarginalibus et marginalibus venisque intermediis nigris, orbiculari et reniformi indistinctis, ciliis testaceis aut fuscis testaceo guttatis; posticæ sordide albidæ, fascia margineque lato diffuso fuscis.*

Male. Hoary, partly and slightly tinged with pale ligneous brown. Head and fore part of the thorax dark brown. Abdomen pale brownish, blackish at the tip. Fore wings with the usual lines black, undulating, double, and very incomplete; a few black flecks at the base, and before the middle and beyond the reniform spot, where they are accompanied by two black streaks; submarginal line whitish, indistinct, having between it and the black marginal lunules a row of black curves, the latter being connected with the lunules by the black intermediate veins; discal spots indistinct; ciliæ alternately brown and testaceous, each brown part including a testaceous dot opposite the black vein. Hind wings dingy whitish, with a slight brown band and a broad diffuse brown border. Length of the body 11 lines; of the wings 24 lines.

a ———? From M. Becker's collection.

Fam. 9. XYLINIDÆ.

Magnitudo varia. Corpus elongatum, sæpissime robustum. Proboscis mediocriter longa, nonnunquam brevis. Palpi mediocres, porrecti aut ascendentes, caput paullo superantes; articulus 3us minimus aut subelongatus. Antennæ sæpissime simplices. Prothorax elevatus. Abdomen alas posticas sæpe dimidio superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ lineatæ et strigatæ, sæpissime longæ angustæ lignicolores.

Xylinidæ, *Guen. Noct.* ii. 107.

Xylinidi, *Guen. Ann. Soc. Ent. Fr.* vi. 227; viii. 500.

Size various. Body elongated, most often stout. Proboscis moderately long, occasionally short. Palpi of moderate length, porrect or ascending, not extending much beyond the head; third joint very short, sometimes of moderate length. Antennæ very generally simple. Prothorax elevated. Abdomen generally extending far beyond the hind wings. Legs stout; tibiæ with long spurs. Fore wings with lines and streaks, generally long and narrow, and of a wood-colour.

A. Alæ maculis nullis vitreis.

A. Alæ anticæ non argentæ.

a. Alæ anticæ non elongatæ.

a. Antennæ maris subpectinatæ. - 1. LITHOCAMPA, *Guen.*

b. Antennæ maris subserratæ. - 3. CLOANTHA, *Boisd.*

c. Antennæ maris simplices.

i. Proboscis mediocriter longa.

* Palpi porrecti. - - 4. AUCHMIS, *Hübner.*

** Palpi suberecti. - 19. CALOPHASIA, *Steph.*

ii. Proboscis longiuscula. - - 17. OMIA, *Hübner.*

iii. Proboscis brevis.

* Palporum articulus 3us minimus.

† Corpus robustum. - 2. XYLOCAMPA, *Guen.*

†† Corpus gracile. - 15. CRAMBODES, *Guen.*

** Palporum articulus 3us 2i triente non brevior.

† Corpus robustum.

† Alæ anticæ apice rotundatæ.

9. XYLINA, *Ochs.*

†† Alæ anticæ apice angulatæ.

18. CLEOPHANA, *Boisd.*

†† Corpus gracile. - 16. EPIMECIA, *Guen.*

B. Alæ anticæ elongatæ.

a. Alæ anticæ apice rotundatæ.

i. Palporum articulus 3us 2i triente non brevior.

* Proboscis longiuscula. - 5. LITHOMIA, *Curt.*** Proboscis breviuscula. - 8. RHUDA, *Walk.*

ii. Palporum articulus 3us brevissimus.

6. CALOCAMPA, *Steph.*b. Alæ anticæ apice subangulatæ. - 7. CAPUSA, *Walk.*

c. Alæ anticæ apice acutæ.

i. Caput fasciculatum. - 12. NYSTALEA, *Guen.*

ii. Caput non fasciculatum.

* Alæ anticæ margine exteriore subobliquo.

11. CYRRHESTA, *Walk.*

** Alæ anticæ margine exteriore perobliquo.

† Alæ posticæ integræ. 13. CUCULLIA, *Ochs.*

†† Alæ posticæ subdenticulatæ.

10. LYNCESTIS, *Walk.*B. Alæ anticæ argenteæ. - - - 14. ARGYRITIS, *Hüb.*B. Alæ maculis vitreis. - - - - 20. SIGA, *Hüb.*

Genus 1. LITHOCAMPA.

Corpus vix robustum. Caput antice fasciculatum. Proboscis brevis. Palpi porrecti, caput sat superantes; articulus 3us minimus. Antennæ corporis dimidio multo longiores. Abdomen cristatum, alas posticas vix superans. Pedes sat graciles; tibiæ posticæ calcaribus longis. Alæ anticæ angustæ, apud costam rectæ, apice acutæ, margine exteriore integro subconvexo valde obliquo. *Mas.*—Antennæ subpectinatæ.

Lithocampa, *Guen. Noct.* ii. 108.

Cleophana, p., *Treit.*

Xylocampa, p., *Boisd*; *Dup.*; *Herr.-Schæff.*

Calliergis, p., *Hüb. Verz. Schmett.* 244.

Body hardly stout. Frontal tuft conspicuous. Proboscis short. Palpi porrect, extending some distance beyond the head; third joint very minute. Antennæ much more than half the length of the body. Abdomen crested, hardly extending beyond the hind wings. Legs rather slender; hind tibiæ with four long spurs. Fore wings narrow, straight in front, acute at the tips, entire, slightly convex and very oblique along the exterior border. *Male.*—Antennæ slightly pectinated.

1. LITHOCAMPA RAMOSA.

Canescens; caput nigro fasciatum; thorax fuscus, antice albidis nigroque fasciatus; abdomen nigro cristatum; alæ anticæ lituris costalibus et discalibus strigisque lanceolatis exterioribus nigris, linea submarginali albida valde angulosa, vitta postica excisa fusca lineas nigras includente; posticæ albæ, gutta discali margineque fusciscentibus.

———, *Engr. Pap. d'Eur.* 384, a—c.

Bombyx ramosa, *Esp. Schmett.* iii. 391, pl. 88, f. 3. *Hübner. Eur. Schmett. Noct.* pl. 51, f. 247. *Dup. Hist. Nat. Léop. Fr.* vii. 218, pl. 114, f. 5. *Freyer, Neue Beitr.* pl. 245, 72; *Ent. Zeit. Stett.* ii. 107.

Calliergis ramosa, *Hübner. Verz. Schmett.* 244, 2427.

Cleophana ramosa, *Treit. Schmett.* v. 64, 25; *Suppl.* 119.

Xylina ramosa, *Meig. Syst. Besch.* iii. 188, 15, pl. 110, f. 10.

Xylocampa ramosa, *Boisd. Ind. Méth.* 150, 1208. *Herr.-Schæff. Eur. Schmett.* ii. 290, 338.

Lithocampa ramosa, *Guen. Noct.* ii. 109, 826.

France. Switzerland. Germany.

a. Europe. From M. Becker's collection.

b. ———?

Genus 2. XYLOCAMPA.

Corpus robustum, pilosum. Proboscis brevis. Palpi porrecti, caput sat superantes; articulus 3us minimus. Antennæ corporis dimidio longiores. Abdomen cristatum, alas posticas paullo superans. Pedes sat validi; tibiæ posticæ calcaribus longis. Alæ anticæ sat angustæ, apud costam rectæ, apice subrotundatæ, margine exteriori subconvexo vix denticulato mediocriter obliquo. *Mas.*—Antennæ validæ, simplices.

Xylocampa, *Guen. Ann. Soc. Ent. Fr.* vi. 227; *Noct.* ii. 110; *Boisd.*; *Dup.*

Xylina, p., *Ochs.*

Dichonia, p., *Hübner. Verz. Schmett.* 217.

Cleophana, p., *Treit.*

Hadena, p., *Steph.*

Body stout, pilose. Proboscis short. Palpi porrect, extending some distance beyond the head; third joint very minute. Antennæ more than half the length of the body. Abdomen crested, extend-

ing a little beyond the hind wings. Legs rather stout; hind tibiæ with four long spurs. Fore wings rather narrow, straight in front, slightly rounded at the tips, hardly denticulated, slightly convex and moderately oblique along the exterior border. *Male*.—Antennæ stout, simple.

1. XYLOCAMPA LITHORIZA.

Cinerascens; caput, thorax et alæ anticæ nigro conspersa; alæ anticæ roseo subinctæ, lineis transversis undulosis, guttis costalibus, lunulis marginalibus annulisque duobus discalibus nigris, linea transversa submarginali angulosa albida; posticæ albide, fusco late marginatæ, ciliis albis.

- , *Engr. Pap. d'Eur.* 290, a, b.
Noctua lithoriza, *Bork. Eur. Schm.* iv. 339, 140. *Dup. Hist. Nat. Léop. Fr.* vii. 191, pl. 112, f. 4. *Frey. Beitr.* pl. 70.
Noctua areola, *Esp. Schm.* iv. pl. 141, f. 4.
Noctua operosa, *Hüb. Eur. Schm.* Noct. pl. 85, f. 398.
Cleophana lithorhiza, *Treit. Schm.* v. 66, 26.
Xylina lithorhiza, *Meig. Syst. Besch.* iii. 184, 7, pl. 110, f. 8.
Dichonia operosa, *Hüb. Verz. Schm.* 217, 2169.
Hadena lithorhiza, *Steph. Ill. Brit. Ent. Haust.* ii. 187.
Xylocampa lithorhiza, *Boisd. Ind. Méth.* 150, 1207. *Guen. Noct.* ii. 110, 827.
Xylophasia lithorhiza, *Herr.-Schæff. Eur. Schm.* ii. 289, 335.
a—q. England. From Mr. Stephens' collection.
r—w. England.
x, y. Europe. From M. Becker's collection.

Genus 3. CLOANTHA.

Corpus sat validum. Proboscis mediocriter longa. Palpi oblique ascendentes, caput paullo superans; articulus 3us cylindricus, 2i quadrante non longior. Antennæ filiformes, corporis dimidio longiores. Abdomen cristatum, alas posticas vix superans. Pedes sat graciles; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice rotundatæ, margine exteriori subobliquo fere recto. *Mas*.—Antennæ subserratæ, subciliatæ.

Cloantha, *Boisd.*; *Guen. Ann. Soc. Ent. Fr.* viii. 509; *Noct.* ii. 111.

Actinotia, p., *Hüb. Verz. Schm.* 244.

Xylina, p., *Treits.*

Body moderately stout. Proboscis moderately long. Palpi obliquely ascending, extending a little beyond the head; third joint cylindrical, about one-fourth of the length of the second. Antennæ filiform, more than half the length of the body. Abdomen crested, hardly extending beyond the hind wings. Legs rather slender; hind tibiæ with four long spurs. Fore wings moderately broad, straight in front, rounded at the tips, nearly straight and slightly oblique along the exterior border. *Male*.—Antennæ very minutely serrated and ciliated.

1. CLOANTHA RADIOSA.

Cinereo-fusca; alæ anticæ fuscae, basi canescentes, ocellis duobus elongatus obliquis discalibus strigisque submarginalibus lanceolatis lineisque ciliaribus albidis; posticæ albidæ, maculis discalibus margineque latissimo fuscis, ciliis albidis.

Noctua radiosa, *Esp. Schmett.* iv. pl. 195, f. 3. *Dup. Hist. Nat.*

Lép. Fr. vii. 234, pl. 115, f. 1. *Frey. Beitr.* iii. pl. 238.

Noctua lyncea, *Hüb. Eur. Schmett. Noct.* pl. 92, f. 434.

Actinotia lyncea, *Hüb. Verz. Schmett.* 244, 2432.

Xylina radiosa, *Treit. Schmett.* v. 73, 30. *Meig. Syst. Besch.* iii. 192, 22, pl. 111, f. 5.

Cloantha radiosa, *Boisd. Ind. Méth.* 151, 1211. *Guen. Noct.* ii. 112, 828.

Hungary.

Genus 4. AUCHMIS.

Corpus robustum. Proboscis mediocriter longa. Palpi porrecti; articulus 3us conicus, minimus. Antennæ corporis dimidio longiores. Abdomen cristatum, alas posticas perpaullo superans. Pedes mediocriter validi; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice perpaullo rotundatæ, margine plus minusve obliquo et denticulato. *Mas*.—Antennæ subciliatæ.

Cloantha, p., *Boisd.*; *Guen.*; *Herr.-Schæff.*

Xylina, p., *Treit.*; *Meig.*

Xylophasia, p., *Herr.-Schæff.*

Auchmis, p., et Actinotia, p., *Hüb. Verz. Schmett.* 243, 244.

Body stout. Proboscis moderately long. Palpi porrect; third joint conical, not one-fourth of the length of the second. Antennæ more than half the length of the body. Abdomen crested,

extending very little beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Fore wings moderately broad, straight in front, very slightly rounded at the tips, somewhat or very oblique, and more or less denticulated along the exterior border. *Male*.—Antennæ very minutely ciliated.

1. AUCHMIS HYPERICI.

Cinerea; thorax fascia antica tenui angulata nigra; alæ anticæ ex parte cinereo-fuscæ, ocellis duabus vittisque discalibus strigisque exterioribus canis nigro marginatis; posticæ nigro-cinereæ, basi pallidiores.

———, *Engr. Pap. d'Eur.* 357, a.

Noctua Hyperici, *Wien. Verz.* 76, 10. *Fabr. Mant. Ins.* ii. 167, 217; *Ent. Syst.* iii. 2, 91, 272. *Bork. Eur. Schmett.* iv. 351, 146. *Hüb. Eur. Schmett. Noct.* pl. 51, f. 250. *Dup. Hist. Nat. Léop. Fr.* vii. 194, pl. 112, f. 5. *Frey. Beitr.* ii. pl. 154.

Phalæna-Noctua Hypericonis, *Gmel. ed. Syst. Nat.* i. 5, 2577, 1180.

Xylina Hyperici, *Treit. Schmett.* v. 67, 27. *Meig. Syst. Besch.* iii. 190, 19, pl. 111, f. 3.

Cloantha Hyperici, *Boisd. Ind.* 151, 1209. *Guen. Noct.* ii. 113, 829.

Xylophasia Hyperici, *Herr.-Schæff. Eur. Schmett.* ii. 289, 334.

Auchmis Hyperici, *Hüb. Verz. Schmett.* 243, 2424.

a—c. Europe. From M. Becker's collection.

2. AUCHMIS PERSPICILLARIS.

Pallide cinerascens; thoracis vittæ duæ abdominisque vitta dorsalis fuscæ; alæ anticæ plaga discali nigro-fusca ocellum elongatum antice acuminatum includente, vittis basalibus strigisque lanceolatis marginalibus nigricantibus; posticæ pallide cinerascens, margine lato fuscæ, venis obscurioribus.

———, *Engr. Pap. d'Eur.* 345, a, d.

Phalæna-Noctua perspicillaris, *Linn. Syst. Nat.* 849, 148; *Faun. Suec.* 1198. *Gmel. ed. Syst. Nat.* i. 5, 2564, 148.

Phalæna polyodon, *Clerck, Icon.* pl. 2, f. 3.

Noctua perspicillaris, *Wien. Verz.* 76, 11. *Fabr. Mant. Ins.* ii. 167, 218; *Ent. Syst.* iii. 2, 92, 273. *Esp. Schmett.* iv. pl. 134, f. 3. *Brahm, Ins.* 152. *Bork. Eur. Schmett.* iv. 336, 139. *Hübner. Eur. Schmett. Noct.* pl. 51, f. 249. *Dup. Hist. Nat. Léop. Fr.* vii. 149, pl. 110, f. 2. *Frey. Alt. Beitr.* pl. 5, 20; *Ent. Zeit. Stett.* ii. 108.

Actinotia perspicillaris, *Hübner. Verz. Schmett.* 244, 2431.

Xylina perspicillaris, *Treit. Schmett.* v. 60, 28. *Meig. Handb.* 174, 68; *Syst. Besch.* iii. 190, 18, pl. 111, f. 1.

Cloantha perspicillaris, *Boisd. Ind. Meth.* 151, 1210. *Guen. Noct.* ii. 113, 830. *Herr.-Schæff. Eur. Schmett.* ii. 301, 367.

Europe.

a. England. From Mr. Stephens' collection.

North America.

3. AUCHMIS RAMOSULA.

Cinerea; *palpi breves*; *alæ anticæ carneo subinctæ, lituris radiatis nigro-fuscis, reniformis dimidio postico nebula nigricante tecto, orbiculari annulari elongata indistincta, linea arcuata e denticulis aut punctis nigris*; *posticæ cinereæ, basi pallidiores, lunula venisque obscuris, subtus albæ lunula margineque carneo-cinereis.*

Cloantha ramosula, *Guen. Noct.* ii. 114, 831.

North America.

Australia.

4. AUCHMIS COMPOSITA.

Var. *Cana*; *thorax fusco fasciatus et vittatus*; *alæ anticæ vitta informi interrupta extus divisa, margine interiore lineaque exteriori angulosa fuscis, linea basali, venis exterioribus guttisque marginalibus nigris, lituraque discali alba*; *posticæ fuscescente-cinereæ, ciliis albis.*

Cloantha composita, *Guen. Noct.* ii. 114, 832.

Hoary. Thorax with brown bands and stripes. Fore wings brown along the interior border, with a brown irregular discal stripe, which is interrupted and divided exteriorly, with a black basal line with black exterior veins, with marginal black dots, with a white discal figure, and with an exterior zigzag transverse brown line; disk beneath brown. Hind wings brownish cinereous, with white ciliæ. Length of the body 6 lines; of the wings 14 lines.

- a.* Tasmania. Presented by the Rev. A. Beaufort.
b, c. Tasmania. Presented by Morton Allport, Esq.
d, e. Adelaide. Presented by the Entomological Club.
f. New Zealand. Presented by the Rev. W. Colenso.
g—i. New Zealand. Presented by Dr. Sinclair.
j, k. New Zealand. Presented by Col. Bolton.
l. New Zealand. From Mr. Churton's collection.
m. Tasmania. From Mr. A. J. Smith's collection.
n. ———? From the voyage of H.M.S. Herald.

Genus 5. LITHOMIA.

Corpus robustum. Proboscis longiuscula. Palpi breves, graciles, caput vix superantes; articulus 3us 2i triente æqualis. Antennæ graciles, corporis dimidio longiores. Abdomen alas posticas triente superans, non cristatum. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ longiusculæ, sat angustæ, apice rotundatæ, margine exteriore perobliquo vix angulato. *Mas.*—Antennæ subciliatæ.

Lithomia, Curt. Brit. Ent.

Lithomoia, p., Hübn. Verz. Schmett. 244.

Xylina, p., Treit.; Meig.; Herr.-Schæff.

Cloantha, p., Boisd.; Guen.

Body stout. Proboscis rather long. Palpi short, slender, hardly extending beyond the head; third joint cylindrical, about one-third of the length of the second. Antennæ slender, more than half the length of the body. Abdomen extending for one-third of its length beyond the hind wings, not crested. Legs stout; hind tibiæ with four long spurs. Fore wings rather long and narrow, straight in front, rounded at the tips, very slightly angular and very oblique along the exterior border. *Male.*—Antennæ very minutely ciliated.

1. LITHOMIA SOLIDAGINIS.

Cinereo-canescens; thorax nigro-fusco fasciatus; abdomen cinerascens; alæ anticæ canescentes, costâ fasciisque diffusis fuscescentibus, venis strigisque lanceolatis exterioribus nigris, lineâ submarginali valde angulosa, orbiculari et reniformi albedo marginatis, hac magna disco albo, illa parva subrotunda; posticæ cinerascens, ciliis albis.

- Noctua Solidaginis, *Hübner. Eur. Schmett. Noct.* pl. 53, f. 256. *Dup. Hist. Nat. Lép. Fr.* vii. 179, pl. 112, f. 1.
 Lithomia Solidaginis, *Hübner. Verz. Schmett.* 244, 2426.
 Lithomia Solidaginis, *Curt. Brit. Ent.* pl. 683.
 Cucullia Solidaginis, *Steph. Ill. Brit. Ent. Haust.* iv. 390. *Trans. Ent. Soc. Lond.* ii. 57, pl. 3, f. 7.
 Xylina Solidaginis, *Treit. Schmett.* v. 11, 3. *Meig. Syst. Besch.* iii. 181, 3, pl. 109, f. 11. *Herr.-Schæff. Schmett. Eur.* ii. 302, 368. *Boisd. Ind. Méth.* 149, 1199.
 Cloantha Solidaginis, *Guen. Noct.* ii. 115, 833.
a, b. England. Presented by — Labrey, Esq.
c—j. England. From Mr. Stephens' collection.
k, l. England.
m—p. Europe. From M. Becker's collection.
q, r. Europe.

Asia.

2. LITHOMIA? RUTA.

- Mas. *Alæ anticæ cinereo-fusæ, maculis ordinariis nigricantibus nigro circumscriptis, lineisque duabus transversis denticulatis nigris; posticæ basi subcinereæ, externe nigricantes.*
 Xylina Ruta, *Eversmann, Bull. Soc. Imp. Nat. Mosc.* 1851, xxiv. No. 2, 634, 21.
 Eastern Siberia.

Genus 6. CALOCAMPA.

Corpus robustum. Proboscis mediocriter longa. Palpi brevissimi, caput non superantes; articulus 3us minimus. Antennæ validæ, subciliatæ, corporis dimidio paullo longiores. Abdomen alas posticas triente superans, non cristatum. Pedes validi; tibiæ posticæ calcaribus quatuor longis. Alæ anticæ longæ, angustæ, apud costam rectæ, apice rotundatæ, margine exteriori subdenticulato valde obliquo.

- Calocampa, *Steph.; Curt.; Guen. Ann. Soc. Ent. Fr.* viii. 505; *Noct.* ii. 115.
 Axylia, p., *Hübner. Verz. Schmett.* 242.
 Xylina, p., *Ochs.; Trcits.; Meig.; Boisd.*

Body stout. Proboscis moderately long. Palpi very short, not extending beyond the head; third joint very minute. Antennæ stout, very minutely ciliated, a little more than half the length of

the body. Abdomen extending for about one-third of its length beyond the hind wings, not crested. Legs stout; hind tibiæ with four long spurs. Fore wings long and narrow, straight in front, rounded at the tips, straight, slightly denticulated and very oblique along the exterior border.

1. CALOCAMPA VETUSTA.

Cervina; thorax nigro-cinereus, antice cervinus, lineis undulatis nigris pallidisque; alæ anticæ disco ex parte albido punctis nigris, vitta brevi lata postica fusca, orbiculari subobsoleta, reniformi nigro albidoque signata, striga exteriori guttisque elongatis submarginalibus nigris, linea angulosa submarginali testacea; posticæ pallide cervinæ, ciliis albidis.

———, *Engr. Pap. d'Eur.* 370, b—d, e. *Wilk. Pap.* 18.

Roës. Ins. i. pl. 24, f. 2 (larv.).

Noctua vetusta, *Hübner. Eur. Schmett. Noct.* pl. 97, f. 459. *Dup.*

Hist. Nat. Léop. Fr. vii. 159, pl. 111, f. 1.

Xylina vetusta, *Treit. Schmett.* v. 3, 4, 1. *Meig. Handb.* 173, 67;

Syst. Besch. iii. 181, 2, pl. 109, f. 10. *Boisd. Ind. Méth.* 149, 1197. *Herr.-Schæff. Eur. Schmett.* ii. 303, 370.

Axylia vetusta, *Hübner. Verz. Schmett.* 242, 2406.

Calocampa vetusta, *Steph. Ill. Brit. Ent. Haust.* ii. 174. *Guen. Noct.* ii. 115, 834.

Noctua exoleta, *Panz. Faun. Germ.* 61, 23.

a—f. England. From Mr. Stephens' collection.

g, h. England. From Mr. Stevens' collection.

i, j. England.

k—n. Scotland. From Mr. Foxcroft's collection.

o. Europe. From M. Becker's collection.

p, q. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

r. Massachusetts. From Prof. Sheppard's collection.

s. Orilla, West Canada. From Mr. Bush's collection.

2. CALOCAMPA EXOLETA.

Cervina; caput antice nigro-fuscum; thorax nigro-cinereus, antice cervinus linea valde undulata nigra; alæ anticæ nigro subconspersæ, posticæ fuscescentes, linea discali alba, costa vittaque dislocata nigris, orbiculari subobsoleta, reniformi nigro signata, linea submarginali angulosa testacea, posticæ cervino-cinereæ, ciliis pallidioribus.

- , *Roës. Ins.* i. pl. 24, f. 2—5. *Deg. Ins.* ii. 401, pl. 7. *Naturf.* 29, 220. *Wilk. Pap.* 8, 1, 2, pl. 18. *Engr. Pap. d'Eur.* 370, a, e—h. *Frisch, Ins.* v. pl. 11, f. 1. *Sulz. Ins.* pl. 16, f. 95. *Schæff. Icon.* pl. 24, f. 6, 7.
- Phalæna-Noctua exoleta*, *Linn. Syst. Nat.* 849, 151; *Faun. Suec.* 1085. *Gmel. ed. Syst. Nat.* i. 5, 2565, 151.
- Noctua exoleta*, *Wien. Verz.* 75, 1. *Fabr. Sp. Ins.* ii. 239, 144; *Mant. Ins.* ii. 180, 290; *Ent. Syst.* iii. 2, 119, 361. *Esp. Schmett.* iv. pl. 138, f. 1—3. *Bork. Eur. Schmett.* iv. 319, 134. *Hübner. Eur. Schmett. Noct.* pl. 50, f. 244. *Dup. Hist. Nat. Léop. Fr.* vii. 143, pl. 111, f. 2. *Donov. Brit. Ins.* v. pl. 187. *Haw. Lep. Brit.* 24.
- Xylina exoleta*, *Treit. Schmett.* v. 3, 7, 2. *Meig. Handb.* 173, 66; *Syst. Besch.* iii. 180, 1, pl. 109, f. 9. *Herr.-Schæff. Schmett. Eur.* ii. 303, 370.
- Axylia exoleta*, *Hübner. Verz. Schmett.* 242, 2405.
- Calocampa exoleta*, *Steph. Ill. Brit. Ent. Haust.* ii. 173. *Curt. Brit. Ent.* pl. 256. *Boisd. Ind. Méth.* 149, 1198. *Guen. Noct.* ii. 116, 835.
- a—i.* England. From Mr. Stephens' collection.
j—m. England.
n, o. Scotland. From Mr. Foxcroft's collection.
p, q. Europe. From M. Becker's collection.
r. Europe.

Genus 7. CAPUSA.

Fæm. Corpus robustum. Proboscis brevis. Palpi breves, porrecti, caput non superantes; articulus 3us longi-conicus, 2i dimidio æqualis. Antennæ simplices, graciles, corporis dimidio multo longiores. Abdomen alas posticas vix superans. Pedes vix validi; tibiæ posticæ calcaribus breviusculis. Alæ anticæ longæ, angustæ, apud costam subrectæ, apice subangulatæ, margine exteriore perobliquæ.

Female. Body stout. Proboscis short. Palpi short, porrect, not extending beyond the head; third joint elongate-conical, about half the length of the second. Antennæ simple, slender, much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs hardly stout; hind tibiæ with rather short spurs. Fore wings long and narrow, almost straight in front, slightly angular at the tips, very oblique along the exterior border.

1. CAPUSA SENILIS.

Fœm. *Cinerea, ex parte cana; abdomen canum; alæ anticæ fasciis duabus canis angulosis indistinctis et incompletis, vitta alba, orbiculari et reniformi e lituris duabus indeterminatis nigricantibus; posticæ albæ, apice nigræ.*

Female. Cinereous, partly hoary. Abdomen hoary. Fore wings with two indistinct and incomplete angulose gray bands, and with a white stripe; orbicular and reniform spots distinguished by two indefinite blackish marks. Hind wings white, black at the tips, and more slightly so along the exterior border. Length of the body 9 lines; of the wings 24 lines.

a. Tasmania. Presented by R. Butler, Esq.

Genus 8. RHUDA.

Corpus robustum. Proboscis breviuscula. Palpi porrecti, caput superantes; articulus 3us cylindricus, 2i triente æqualis. Antennæ subciliatæ, corporis dimidio non breviores. Abdomen alas posticas triente superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ longuisculæ, sat angustæ, apud costam rectæ, apice rotundatæ, margine exteriore subconvexo perobliquo.

Body stout. Proboscis rather short. Palpi porrect, extending somewhat beyond the head; third joint cylindrical, about one-third of the length of the second. Antennæ slightly ciliated, full half the length of the body. Abdomen extending for one-third of its length beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings rather long and narrow, straight in front, rounded at the tips, slightly convex and very oblique along the exterior border.

1. RHUDA BASIFERA.

Fœm. *Olivaceo-vitidis; thorax fasciis incompletis albidis; abdomen fusco-cinereum, basi luteum; alæ anticæ roseo-albidæ, vittis duabus æneo-fuscis, antica angulosa nigro strigata et marginata, strigis lineaque undulata submarginalibus nigris, ciliis fuscis basi albo guttatis; posticæ luteæ, margine latissimo æneo-fusco, ciliis albido-luteis.*

Female. Olive-green. Thorax with incomplete whitish bands. Abdomen brownish cinereous, luteous at the base. Fore wings whitish with a rosy tinge, with some black streaks near the exterior

border, and with a black undulating submarginal line; two æneous-brown stripes, the fore one angulose, streaked and bordered with black, more distinct than the hind one; ciliæ brown, with a row of white dots at the base. Hind wings luteous, with very broad æneous-brown borders, and with whitish luteous ciliæ. Length of the body 10 lines; of the wings 23 lines.

a. Rio Janeiro. From Mr. Stevens' collection.

Genus 9. XYLINA.

Corpus robustum. Caput antice fasciculatum. Proboscis brevis. Palpi porrecti, pilosi, caput paullo superantes; articulus 3us cylindricus, 2i triente æqualis. Antennæ validæ, corporis dimidio multo longiores. Abdomen latum, basi cristatum, alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ aut sat angustæ, apud costam rectæ, apice rotundatæ, margine exteriori subconvexo subdenticulato, mediocriter aut valde obliquo. *Mas.*—Antennæ subciliatæ.

Xylina, p., *Ochs.*; *Treit.*; *Dup.*; *Boisd.*; *Steph.*; *Guen. Ann. Soc. Ent. Fr.* viii. 503; *Noct.* ii. 117.

Graptolitha, p., et *Lithophane*, p., *Hübner. Verz. Schmett.*

Body stout. Frontal tuft conspicuous. Proboscis short. Palpi porrect, pilose, extending a little beyond the head; third joint cylindrical, about one-third of the length of the second. Antennæ stout; much more than half the length of the body. Abdomen broad, extending a little beyond the hind wings, crested near the base. Legs stout; hind tibiæ with four long spurs. Fore wings moderately broad, straight in front, rounded at the tips, slightly convex and denticulated, and moderately oblique along the exterior border. *Male.*—Antennæ minutely ciliated.

A. Alæ anticæ non fusco variæ.

A. Alæ posticæ fusco-rufescentes. - - - *Merckii, Ramb.*

B. Alæ posticæ cervinæ. - - - *Zinckenii, Treit.*

C. Alæ posticæ pallidæ.

A. Alæ anticæ plaga alba. - - - *cinerosa, Guen.*

B. Alæ anticæ plaga nulla alba. - *rhizolitha, Wien. Verz.*

B. Alæ anticæ fusco variæ.

A. Alæ anticæ non angustæ. - - - *conformis, Wien. Verz.*

B. Alæ anticæ angustæ. - - - *lapidea, Hübn.*

C. Alæ anticæ dimidio basali fusco. - *Ingrica, Herr.-Schæff.*

D. Alæ anticæ cervinæ. - - - *petrificata, Wien. Verz.*

E. Alæ anticæ fuscæ. - - - *semibrunnea, Haw.*

1. XYLINA MERCKII.

Alæ anticæ supra subcinereæ, venis lineisque nigris; posticæ fusco-rufescentes; crista dorsali ad apicem rufa; abdomen fusco-rufescens.

Xylina Merckii, Ramb. Ann. Soc. Ent. Fr. i. 293, pl. 9, f. 6. Boisd. Ind. Méth. 149, 1200. Dup. Hist. Nat. Léop. Fr. Suppl. iii. 423, pl. 37, f. 4. Guen. Noct. ii. 117, 836. Herr.-Schæff. Eur. Schmett. ii. 304, 375.

Noctua Ripagina, Geyer. Schmett. f. 840.

Noctua simplex, Frey. Beit. iii. pl. 255, f. 1.

South France. Corsica. Hungary.

a. Europe. From M. Becker's collection.

2. XYLINA CONFORMIS.

Cinerea; antennæ basi albæ; abdomen subcervinum; alæ anticæ lineâ basali lineaque discali posteriore nigris hac intus furcata, striga basali strigaeque obliqua inter maculas fuscis, maculis magnis ex parte nigro marginatis, lineâ submarginali cana undulata ex parte fusco notata; posticæ subcervinæ, ciliis albidis.

———, Engr. Pap. d'Eur. 343, a—c. Deg. Ins. ii. 436, pl. 8.

Noctua conformis, Wien. Verz. 76, 7. Fabr. Mant. Ins. ii. 183, 302; Ent. Syst. iii. 2, 124, 374. Bork. Eur. Schmett. iv. 348, 145. Hübn. Eur. Schmett. Noct. pl. 50, f. 243. Dup. Hist. Nat. Léop. Fr. vii. 182, pl. 112, f. 2.

Phalæna-Noctua conformis, Gmel. ed. Syst. Nat. i. 5, 2566, 1137.

Noctua furcifera, Naturf. ix. 77.

Noctua bifurca, Esp. Schmett. iv. pl. 131, f. 1.

Xylina conformis, Treit. Schmett. v. 3, 12, 4. Meig. Syst. Besch. iii. 182, 4, pl. 109, f. 12. Boisd. Ind. Méth. 149, 1201. Eversm. Faun. Volg-Ural. 287. Guen. Noct. ii. 118, 837. Herr.-Schæff. Eur. Schmett. ii. 305, 380.

Graptolitha conformis, Hübn. Verz. Schmett. 243, 2413.

a, b. Europe. From M. Becker's collection.

c. Europe.

3. XYLINA CINEROSA.

Cinerea, X. conformi similis, minor; thorax lineis nigris magis distinctis; alæ anticæ latiores, albido-cinereæ, nebulis nigricantibus lineis maculisque bene determinatis, plaga antica basali alba; posticæ pallidiores.

Xylina cinerosa, Guén. Noct. ii. 118, 838.

Xylina conformis, var. ?

Swiss and French Alps.

4. XYLINA INGRICA.

Cana; thorax fusco varius, fascia antica abdominisque margine testaceis, hujus vitta nigra; alæ anticæ dimidio basali ex parte fuscæ, lineis transversis angulosis interruptis albis nigro marginatis, maculis albo nigroque marginatis, guttis marginalibus nigris; posticæ subtestaceæ, linea fasciæque cinereis, punctis marginalibus nigris.

Xylina Ingrica, Herr.-Schæff. Eur. Schmett. ii. 305, 379, pl. 99, f. 507. Guén. Noct. ii. 118, 839.

Russia.

5. XYLINA ZINCKENII.

Cinerea; caput et thorax nigro fasciata; abdomen cervinum; alæ anticæ albido variæ, vitta bis interrupta, fascia incompleta angulosa exteriore liturisque discalibus nigris, macula discali ferruginea; posticæ cervinæ, ciliis albis.

Var. *Xylina somniculosa*, Hering, Ent. Zeit. Stett. ii. 167.

Xylina Zinckenii, Treit. Schmett. v. 16; Suppl. 109. Boisd. Ind. Méth. 149, 1202. Dup. Hist. Nat. Léop. Fr. Suppl. iii. 367, pl. 34. Guén. Noct. ii. 119, 840. Herr.-Schæff. Eur. Schmett. ii. 305, 381, pl. 28, f. 135.

Noctua Lamda? Fabr. Ent. Syst. iii. 2, 106, 317, 317.

Noctua Zinckenii, Frey. Beit. i. pl. 63.

a. Europe. From M. Becker's collection.

6. XYLINA RHIZOLITHA.

Cana; caput antice nigro marginatum; thorax fascia antica alba nigro marginata; abdomen cinerascens; alæ anticæ lineâ basali, macularum marginibus ex parte, guttis exterioribus strigis obliquis costalibus punctisque marginalibus nigris; posticæ cinerascens, ciliis albidis.

————, *Engr. Pap. d'Eur.* 284, a—d.

Noctua rhizolitha, *Wien. Verz.* 75, 6. *Fabr. Mant. Ins.* ii. 182, 301; *Ent. Syst.* iii. 2, 124, 373. *Esp. Schmett.* iv. pl. 121, f. 6. *Bork. Eur. Schmett.* iv. 345, 144. *Hübner. Eur. Schmett. Noct.* pl. 50; f. 242. *Brahm, Ins.* 62. *Dup. Hist. Nat. Lép. Fr.* vii. 187, pl. 112, f. 3.

Phalæna-Noctua rhizolitha, *Gmel. ed. Syst. Nat.* i. 5, 2566, 1136.

Xylina rhizolitha, *Treit. Schmett.* v. 3, 21, 7. *Meig. Handb.* 174, 70; *Syst. Besch.* iii. 182, 5, pl. 110, f. 1. *Steph. Ill. Brit. Ent. Haust.* ii. 170. *Boisd. Ind. Méth.* 150, 1204. *Guen. Noct.* ii. 119, 841. *Herr.-Schæff. Eur. Schmett.* ii. 305, 378.

Graptolitha rhizolitha, *Hübner. Verz. Schmett.* 243, 2414.

Noctua Lambda, *Haw. Lep. Brit.* 61.

a—h. England. From Mr. Stephens' collection.

i, k. England.

l—n Europe. From M. Becker's collection.

7. XYLINA LAPIDEA.

Var. *Cana*; abdomen cinerascens; alæ anticæ angustæ, fusco sublaturatæ, lineâ discali dislocata macularum marginibus ex parte strigisque marginalibus nigris, margine exteriori valde obliquo; posticæ pallide testaceo-cinerascens.

Noctua lapidea, *Hübner. Eur. Schmett. Noct.* f. 382.

Graptolitha lapidea, *Hübner. Verz. Schmett.* 243, 2415.

Xylina lapidea, *Treit. Schmett.* v. 19. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 381, pl. 34, f. 1. *Boisd. Ind. Méth.* 150, 1203. *Guen. Noct.* ii. 119, 842. *Herr.-Schæff. Eur. Schmett.* ii. 303, 374.

Var. *Xylina Leautieri*, *Boisd. Ind. Méth. Suppl.* 6. *Treit. Suppl.* 110.

Var. *Noctua Sabinæ*, *Geyer, Schmett.* f. 766, 767.

Xylina Sabinæ, *Treit. Suppl.* 109.

a, b. Europe. From M. Becker's collection.

c. Europe. From Dr. Frivaldsky's collection.

8. XYLINA SEMIBRUNNEA.

Ligno-fusca; abdomen pallidum, crista nigricante; alæ anticae lituris pallidioribus, strigis lanceolatis margineque postico nigro-fuscis; posticae cinerascetes, margine obscuriore.

———, *Engr. Pap. d'Eur.* 371, a, b.

Noctua semibrunnea, *Haw. Lep. Brit.* 30.

Xylina semibrunnea, *Steph. Ill. Brit. Ent. Haust.* ii. 170, pl. 21, f.

3. *Guen. Noct.* ii. 121, 843.

Noctua petrificata, *Dup. Hist. Nat. Lép. Fr.* vii. 213, pl. 113.

Xylina petrificata, *Dup. Suppl.* iii. 370, pl. 134.

Xylina oculata, *Germ. Faun. Ins.* ix. pl. 18. *Treit. Suppl.* 112.

Boisd. Ind. Méth. 150, 1206. *Dup. Hist. Nat. Lép. Fr. Suppl.*

iii. 373, pl. 34, f. 4. *Herr.-Schæff. Eur. Schmett.* ii. 303, 373, pl. 89, f. 460.

a—g. England. From Mr. Stephens' collection.

h—j. England.

9. XYLINA PETRIFICATA.

Cervina; caput et thorax fusciscentia; alæ anticae angustæ lineis postice confusis, guttis submarginalibus strigisque marginalibus fuscis, maculis indistinctis, margine exteriori valde obliquo; posticae cinerascetes.

———, *Engr. Pap. d'Eur.* 371, c.

Noctua petrificata, *Wien. Verz.* 75, 3. *Fabr. Mant. Ins.* ii. 182, 300; *Ent. Syst.* iii. 2. *View.* 128, pl. 3, f. 4. *Bork. Eur.*

Schmett. iv. 326, 135.

Phalæna-Noctua petrificata, *Gmel. ed. Syst. Nat.* i. 5, 2565, 1135.

Noctua petrificosa, *Hübner. Eur. Schmett. Noct.* pl. 49, f. 239.

Lithophane petroliginea, *Hübner. Verz. Schmett.* 242, 2408.

Xylina petrificata, *Treit. Schmett.* v. 3, 23, 8. *Meig. Syst. Besch.* iii. 183, 6, pl. 110, f. 5. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii.

370, pl. 34. *Steph. Ill. Brit. Ent. Haust.* ii. 171, pl. 23, f. 1.

Boisd. Ind. Méth. 150, 1205. *Guen. Noct.* ii. 121, 844.

Herr.-Schæff. Eur. Schmett. ii. 303, 372.

a—f. England. From Mr. Stephens' collection.

g, h. England.

i. Europe. From M. Becker's collection.

j. Europe.

North America.

10. XYLINA CONTRARIA.

Cinerea; thorax fascia antica vittisque duabus nigris; abdomen nigro cristatum; alæ anticæ annulis discalibus fasciisque duabus lanceolatus albidis nigro marginatis, striga nigra media ferrugineo marginata; posticæ pallide cinereæ, marginibus obscurioribus, ciliis albidis.

Cinereous. Thorax with a black band in front, and with a black stripe on each side. Abdomen with blackish crests. Fore wings with the discal ringlets and with two lanceolate bands (one interior, the other exterior) whitish with black borders; a black ferruginous-bordered streak between the bands, of which the exterior one is dilated where it joins the streak. Hind wings pale cinereous, with darker borders, and with whitish ciliæ. Length of the body 6 lines; of the wings 14 lines.

a. United States. Presented by E. Doubleday, Esq.

b. Orilla, West Canada. From Mr. Bush's collection.

11. XYLINA INFRUCTUOSA.

Mas. *Cinerea*; thorax fuscescente subfasciatus; abdomen fasciculo apicali cervino; alæ anticæ fasciis duabus fuscis valde indistinctis, strigis nonnullis basalibus nigris et pallide cinereis; posticæ cinereæ, margine fuscescente.

Male. Cinereous. Thorax slightly banded with brown. Abdomen with a tuft of fawn-coloured hairs at the tip. Fore wings with two very indistinct brown bands; some black and pale cinereous basal streaks; submarginal line angulose, black, bordered with pale cinereous. Hind wings cinereous, with brownish borders. Length of the body 7 lines; of the wings 15 lines.

a. East Florida. Presented by E. Doubleday, Esq.

12. XYLINA SIGNOSA.

Mas. *Cinerea*; thorax nigro conspersus, ex parte ferrugineus, fascia antica nigra; abdomen ferrugineo cristatum; alæ anticæ strigis ferrugineis; orbiculari et reniformi indistinctis pallido marginatis, linea duplici exteriori guttulari strigisque marginalibus nigris, striga postica latiore nigricante.

Male. Cinereous. Thorax partly ferruginous, speckled with black, and with a black band in front. Abdomen with ferruginous crests. Fore wings with ferruginous streaks; orbicular and reniform spots indistinct, with pale borders; a double exterior line of black dots, and a marginal row of black streaks; a broader blackish streak near the middle of the interior border. Length of the body 6 lines; of the wings 16 lines.

a. Northern United States. Presented by E. Doubleday, Esq.

13. XYLINA MULTIFARIA.

Fœm. *Fusca*; *caput et thorax anticus cinerea, nigro fasciata*; *abdomen nigro conspersum*; *tarsi nigro-cincti*; *alæ anticæ striga basali nigra, strigis discalibus nigricantibus, striga postica undulata nigricante, orbiculari obliqua longissima et reniformi contiguâ cervinis, costa nigro guttata, linea submarginali e strigis lanceolatis cinereis*; *posticæ cinereæ, lituris discalibus margineque fuscis, lunulis marginalibus nigris.*

Female. Brown. Head and fore part of the thorax cinereous, each with a black band. Disk of the thorax partly cinereous. Abdomen speckled with black. Tarsi with black bands. Fore wings with a black basal streak, and with other less distinct blackish streaks in the disk; a whitish undulating streak behind the orbicular spot, which is oblique and very long, and is contiguous at its hinder end to the reniform; both fawn-coloured; costa with black dots; submarginal line cinereous, composed of lanceolate streaks. Hind wings cinereous, with a discal band of brown marks, and a broad brown border; marginal lunules black. Length of the body 5 lines; of the wings 15 lines.

a. United States. Presented by E. Doubleday, Esq.

South America.

14. XYLINA INFENSA.

Fœm. *Fusca, cinereo varia*; *alæ anticæ strigis nigris, lineis transversis angulosis guttisque costalibus pallidis*; *posticæ albæ, fusco marginatæ.*

Female. Brown, varied with cinereous. Abdomen cinereous. Fore wings with black streaks, with pale angulose transverse lines. and with pale dots along the costa towards the tip. Hind wings

white, with brown borders. Length of the body 6 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

15. XYLINA BIPUNCTATA.

Mas. *Cinerea*; *thorax fusco bifasciatus*; *abdomen guttis lateralibus nigricantibus*; *alæ anticæ nigro subconspersæ, strigis nonnullis diffusis pallide fuscis, guttis exterioribus et marginalibus duabusque discalibus nigris, striga postica interiore obscure fusca, ciliis fuscis cinereo strigatis*; *posticæ albæ, opalinæ, fusco vix marginatæ.*

Male. Cinereous. Thorax with two brown bands. Abdomen with some blackish dots along each side. Fore wings very minutely speckled with black, with some pale brown diffuse streaks, with black dots on the exterior veins, with black marginal dots, and with two black discal dots indicating the reniform spot; a dark brown streak near the base of the interior border; ciliæ brown, with cinereous streaks. Hind wings white, opaline, slightly bordered towards the tips with pale brown. Length of the body 6 lines; of the wings 14 lines.

Brazil. In Mr. Saunders' collection.

16. XYLINA ALBULA.

Mas et fœm. *Cana*; *thorax antice nigro fasciatus*; *abdomen albidum*; *alæ anticæ strigis discalibus liturisque obliquis costalibus pallide fuscescentibus, lineis duabus guttularibus nigris (una exteriore, altera marginali), orbiculari et reniformi e guttis paucis nigris*; *posticæ albæ, guttis marginalibus fuscis.*

Male and female. Hoary. Antennæ of the male minutely serrated. Thorax with a black band in front. Abdomen whitish, thickly tufted at the tip in the male. Fore wings with pale brownish streaks and oblique costal marks, with two lines of black dots, the one exterior, the other marginal, and with a black basal line; orbicular and reniform spots indicated by a few black dots. Hind wings white, iridescent, with brown marginal dots. Length of the body 5—6 lines; of the wings 12—14 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.

c. Honduras. From Mr. Dyson's collection.

d. Honduras. Presented by E. Doubleday, Esq.

Africa:

17. XYLINA LEFEBVREI.

Alæ anticæ albidæ venis lineisque nigris, maculis duabus ordinariis nigro-cinctis, posticæ albæ; corpus albido-cinereum.

Xylina Lefebvrei, *Bugnion, Ann. Soc. Ent. Fr.* vii. 443, pl. 16, f. 4.

Egypt.

18. XYLINA EXTRICATA.

Fœm. Pallidissime cervina; thorax fascia antica nigra; abdomen albido-cervinum, subcristatum; basi album, apice obscurum; alæ anticæ strigis nonnullis costalibus obliquis fuscis, costa apicem versus cinerea pallido guttata, guttis paucis discalibus, linea duplicata marginali guttulari lineaque basali nigris, striga apud marginem interiorem fusca interrupta; posticæ albæ, cervino vix marginatæ, venis apice fuscis.

Female. Very pale fawn-colour. Thorax with a black band in front. Abdomen whitish fawn-colour, slightly crested, darker at the tip, white at the base. Fore wings with some oblique brown streaks along the costa, which towards the tip is cinereous-brown, with pale dots; two or three black dots in the disk near the costa and a double row of marginal black dots; a black basal line and a dark brown interrupted streak near the interior angle. Hind wings white, slightly tinged with fawn-colour along the border; veins brown towards the tips. Length of the body 9 lines; of the wings 20 lines.

a. Caffraria. From M. Becker's collection.

New Zealand.

19. XYLINA USTISTRIGA.

Cinerea, fusco tineta; abdomen pallidum, apice rufescente-ferrugineum; alæ anticæ annulis tribus nigris informibus discalibus, fascia exteriori incompleta strigaeque distincta apud angulum interiorem ferrugineo-fuscis, lituris costalibus ciliisque ferrugineis; posticæ fuscescentes.

Cinereous, tinged with brown. Abdomen pale cinereous, reddish ferruginous at the tip. Fore wings with three very irregular black discal ringlets, with a very incomplete ferruginous-brown band

near the exterior border, with a distinct ferruginous brown streak near the interior angle, and with ferruginous marks along the costa; ciliæ ferruginous. Hind wings brownish. Length of the body 7—8 lines; of the wings 16—18 lines.

a, b. New Zealand. Presented by the Rev. W. Colonso.

20. XYLINA LIGNISECTA.

Fœm. *Cinerea*, ferrugineo suffusa; alæ anticæ lineis transversis albidis indistinctis undulatis, claviformi, orbiculari et reniformi magnis nigro ex parte marginatis, orbiculari oblonga et reniformi e striga nigra connexis, striga nigra strigulaque nigra albo marginata apud angulum interiorem, lituris submarginalibus nigris; posticæ æneo-fuscæ, basi cinereæ, ciliis albido marginatis.

Female. Cinereous, with a ferruginous tinge. Fore wings with the transverse lines whitish, indistinct and undulating; claviform, orbicular and reniform spots large, partly bordered with black; orbicular oblong, connected by a black streak with the reniform; a black streak near the interior angle, traversed obliquely by a small black whitish-bordered streak; a row of submarginal black marks. Hind wings æneous-brown, cinereous towards the base; ciliæ with whitish borders. Length of the body 8 lines; of the wings 18 lines.

a. New Zealand.

21. XYLINA SPURGATA.

Fœm. *Pallide cinerea*; thorax antice nigro fasciatus; alæ anticæ pallide testaceæ, ex parte nigro conspersæ, linea interrupta nigra, plaga cervina strigam obscure fuscam usque ad marginem emittente, strigis marginalibus nigris cervino marginatis, orbiculari subrotunda sat magna; posticæ cinereæ.

Female. Pale cinereous. Thorax with a black band in front. Fore wings pale testaceous, partly and very slightly speckled with black, with an interrupted black line, which is enclosed in an irregular fawn-coloured patch, the latter communicating by a dark brown streak with the exterior border; a row of black marginal streaks with fawn-coloured borders; orbicular and reniform spots partly enclosed in the patch, the former rather large and nearly round. Hind wings cinereous. Length of the body 6 lines; of the wings 14 lines.

a, b. New Zealand. Presented by Col. Bolton.

22. XYLINA INQUIETA.

Mas. Testacea ; thorax anticus albido fasciatus ; abdomen pallidum ; albæ anticæ nigro subconspersæ, lituris costalibus fuscis obliquis, strigis discalibus fuscis indistinctis, orbiculari obsoleta, reniformi e gutta nigra annuloque fusco, linea exteriore duplicata guttulari nigra, ciliis albo strigatis ; posticæ albæ, margine subfuscescente, guttis nigricantibus.

Male. Testaceous. Thorax with a whitish band in front. Abdomen paler than the thorax; apical tuft rather long. Fore wings thinly speckled with black, with brown oblique marks along the costa, and with slight brown streaks in the disk; orbicular spot obsolete; reniform indicated by a black dot and an indistinct pale brown ringlet; a double exterior band of black dots; ciliæ with white streaks. Hind wings white; borders with blackish dots, and slightly tinged with brown. Length of the body 5 lines; of the wings 13 lines.

a. ——— ?

Genus 10. LYNCESTIS.

Corpus robustum. Palpi caput paullo superantes; articulus 3us parvus, conicus. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas paullo superans. Alæ anticæ longiusculæ, sat angustæ, apud costam vix convexæ, apice acuminatæ, margine exteriore perobliquo subdenticulato; posticæ subdenticulatæ.

Body robust. Palpi extending a little beyond the head; third joint small, conical. Antennæ simple, more than half the length of the body. Abdomen extending a little beyond the hind wings. Fore wings rather long and narrow, hardly convex in front, acuminate at the tips, very oblique and slightly denticulated along the exterior border. Hind wings slightly denticulated.

1. LYNCESTIS AMPHIX.

Canescens, roseo vix sublinctæ; thorax et abdomen vitta cruciformi nigra; alæ anticæ substrigatæ, guttis tribus discalibus punctisque apud marginem interiorem nigris; posticæ albæ, margine latissimo nigro.

Phalæna-Noctua Amphix, Cram. Pap. Exot. ii. 59, pl. 134, f. C. Coromandel.

Genus 11. CYRRHESTÆ.

Corpus robustum. Palpi breves, caput paullo superantes; articulus 3us minutus. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas triente superans. Alæ anticæ longæ, angustæ, apud costam vix convexæ, apice acutæ, margine exteriori integro vix obliquo; posticæ subdentatæ?

Body robust. Palpi short, extending a little beyond the head; third joint minute. Antennæ simple, more than half the length of the body. Abdomen extending for full one-third of its length beyond the hind wings. Fore wings narrow, long, hardly convex in front, acute at the tips, entire and very slightly oblique along the exterior border. Hind wings with three indentations? along the exterior border.

1. CYRRHESTÆ NYSEUS.

Cervina; thorax plagis duabus lateralibus cinereis; alæ anticæ albæ nigro punctatæ, costa lineisque transversis arcuatis nonnullis testaceis; posticæ subangulatæ nigrae, basi albæ, testaceo ciliatæ.

Phalæna-Noctua Nyssus, Cram, Pap. Exot. i. 119, pl. 75, f. E.
Surinam.

Genus 12. NYSTALEA.

Corpus robustum. Caput fasciculatum. Proboscis mediocriter longa. Palpi oblique ascendentes, caput perpaullo superantes; articulus 2us valde robustus; 3us gracilis, cylindricus, 2i quadrante non longior. Antennæ corporis dimidio vix longiores. Abdomen alas posticas dimidio superans. Pedes validi; tibiæ posticæ calcariis quatuor longis. Alæ anticæ longæ, angustæ, apud costam vix convexæ, apice angulatæ, margine exteriori subconvexo perobliquo. Mas.—Antennæ subserratæ.

Nystalea, Guen. Noct. ii. 122.

Trigonophora, p., Hübn. Verz. Schmett. 217.

Body stout. Head with a frontal tuft. Proboscis moderately long. Palpi obliquely ascending, extending very little beyond the head; second joint very stout; third joint slender, cylindrical, not more than one-fourth of the length of the second. Antennæ full

half the length of the body. Abdomen extending for half its length beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Fore wings long and narrow, hardly convex in front, angular at the tips, slightly convex and very oblique along the exterior border. *Male*.—Antennæ minutely serrated.

Nystalea, like several other exotic genera of the first group, partly assumes the characters of the second group, and the peculiar structure of the latter is but slightly developed in its European species.

1. NYSTALEA CONCHYFERA.

Ligno-fusca; abdomen *cinerascens*; *alæ anticæ costa margineque exteriore ex parte lineisque lanceolatis obscure fuscis, costa basali subferruginea, plagis duabus (una costali altera apicali) testaceis, macula discali postica lineaque submarginali guttulari nigris; posticæ albide, iridescentes, semihyalinæ, margine lato fusco, ciliis sordide albidis.*

Nystalea conchyfera, *Guen. Noct. ii. 122, 845.*

Isle St. Thomas.

This is probably a variety of *N. Ebalea*.

a—c. St. Domingo. From Mr. Tweedie's collection.

d. ——— ? Presented by E. Doubleday, Esq.

e. Jamaica.

f. Spirito Sancto, Brazil. From Mr. Stevens' collection.

2. NYSTALEA EBALEA.

Roseo-ferruginea; *alæ anticæ nigro-fuscæ, striga basali plagaque apud angulum interiorem roseis, hac nigro punctata, ocellis duobus costalibus nigris roseo luteoque marginatis, ocello discali postico nigro luteoque; posticæ roseæ, margine nigricante, ciliis luteis.*

Phalæna-Noctua Ebalea, *Cram. Pap. Exot. iv. 41, pl. 310, f. C.*

Nystalea Ebalea, *Guen. Noct. ii. 123, 847.*

Surinam.

Group 2.

Corpus sat robustum. Caput fasciculo postice inclinato. Proboscis mediocriter longa. Palpi subrecti; articulus 3us cylindricus,

2i triente aut dimidio non brevior. Antennæ simplices, graciles. Alæ anticæ lanceolatæ, apud costam subconvexæ, apice acuminatæ.

Body moderately stout. Head with a frontal tuft sloping backward. Palpi ascending, almost vertical; third joint cylindrical, one-third or one-half of the length of the second. Antennæ simple, slender, about half the length of the body. Wings lanceolate, slightly convex in front, acuminate at the tips, very oblique along the exterior border.

3. NYSTALEA SUPERCILIOSA.

Ferrugineo-fusca; alæ anticæ lineis lanceolatis, puncto discali, strigis transversis exterioribus lineaque submarginali subduplicata undulata nigris aut nigro-fuscis, plaga exteriore transversa indistincta ferruginea fusco lineata; posticæ albidæ, margine latissimo ferruginoso, ciliis albidis.

Nystalea superciliosa, Guen. Noct. ii. 123, 846.

Cayenne.

a. St. Domingo. From M. Becker's collection.

b, c. St. Domingo. From Mr. Tweedie's collection.

4. NYSTALEA LINEIPLENA.

Pallide ligno-fusca; abdomen cinerascens; alæ anticæ lineis strigisque variis nigris, purpurascence-cinereo ex parte nebulosæ, guttis duabus discalibus nigris; posticæ albidæ, iridescentes, semihyalinæ, margine lato fusco, ciliis sordide albidis.

Pale ligneous brown. Abdomen more cinereous. Fore wings with various black lines and streaks, partly shaded with purplish cinereous; two black dots, one behind the other in the disk. Hind wings whitish, iridescent, semihyaline, with broad brown borders; ciliæ dingy whitish. Length of the body 12 lines; of the wings 25 lines.

a. Parà. From Mr. Johnson's collection.

5. NYSTALEA GUTTIPLENA.

Fuscescente-cinerea; alæ anticæ fusco subconspectæ, lituris costalibus transversis fuscis, maculis duabus discalibus guttisque exterioribus submarginalibus et marginalibus nigris, strigis submarginalibus fuscis; posticæ iridescentes, semihyalinæ, venis margineque lato fuscis, ciliis albidis.

Brownish cinereous. Third joint of the palpi longer than that of the preceding species. Fore wings minutely speckled with brown, with transverse brown marks along the costa, with two small black spots in the disk, one behind the other, and with black dots on the exterior veins; submarginal line composed of black dots, traversing a row of brown submarginal streaks, which extend to the black marginal dots. Hind wings iridescent, semihyaline, with brown veins and broad brown borders; ciliæ whitish. Length of the body 10? lines; of the wings 24 lines.

a. ———?

6. NYSTALEA FOCULA.

Fusca; thorax plagis duabus lateralibus albis cervino guttatis; abdomen ferrugineum, basi cervinum; alæ anticæ apud costam ex parte cervinæ, striga basali alba, fascia obliqua interiore albido-rosea fasciæque obliqua exteriori albo necnon cinereo flavoque vittam arcuatam fingentibus, guttis marginalibus albis nigro marginatis; posticæ fascia apud marginem interiorem posticæ dilatata ciliisque cervinis.

Phalæna-Noctua Focula, *Cram. Pap. Exot.* iv. 187, pl. 383, f. G, H. Trigonophora Focula, *Hübner. Verz. Schmett.* 217, 2166.

Surinam.

7. NYSTALEA INCHOANS.

Mas. Cinereo-fusca; palporum articulus 3us 2i triente paullo longior; antennæ serratæ, apices versus simplices; abdomen alas posticas dimidio superans, fasciculo apicali bifurcato; pedes densissime ciliati, femoribus anticis argenteo squamosis; alæ anticæ lineis duabus triplicatis valde incompletis, vitta tenui strigisque exterioribus fuscis, linea submarginali undulata e guttis nigris; posticæ cinereæ, margine lato fuscescente.

Male. Cinereous-brown. Third joint of the palpi rather more than one-third of the length of the second. Antennæ serrated, simple towards the tips. Abdomen extending for full half its length beyond the hind wings; apical tuft bifurcate. Legs most densely ciliated; fore femora with silvery scales. Fore wings with two very incomplete triple brown bands, with a slender brown stripe, and with exterior brown streaks; submarginal line slightly undulating, composed of black dots. Hind wings cinereous, with broad brownish borders. Length of the body 14 lines; of the wings 28 lines.

a. Venezuela. From Mr. Dyson's collection.

Genus 13. CUCULLIA.

Corpus robustum. Proboscis mediocriter longa. Palpi pilosissimi, subascendentes, caput vix superantes; articulus 3us minimus. Antennæ simplices, validæ, corporis dimidio non breviores. Thoracis tegulæ bene determinatæ. Abdomen cristatum, alas posticas longæ superans. Pedes longiusculi; tibiæ posticæ calcaribus longis. Alæ anticæ longæ, angustæ, lanceolatæ, apud costam subrectæ, apice acutæ, margine exteriori perobliquo, denticulato aut integro.

Cucullia, p., *Ochs.*; *Treit.*; *Steph.*; *Boisd.*; *Dup.*; *Herr.-Schæff.*; *Guen. Ann. Soc. Ent. Fr.* viii. 507; *Noct.* ii. 123.

Cucullia, Enderæa, Eucalimia, Callænia, et Empusa, *Hübner. Verz. Schmett.*

Body stout. Proboscis moderately long. Palpi slightly ascending, very pilose, hardly extending beyond the head; third joint very minute. Antennæ simple, stout, full half the length of the body. Thorax with large lappets. Abdomen crested, extending for half its length or rather less beyond the hind wings. Legs rather long; hind tibiæ with long spurs. Fore wings lanceolate, long and narrow, nearly straight in front, acute at the tips, very oblique along the exterior border, which is denticulated or entire.

Group 1.

Alæ anticæ lignicolores, maculis obsoletis aut subobsoletis, lineis indistinctis.

Fore wings wood-colour; orbicular and reniform spots obsolete or hardly visible; lines indistinct.

A. Alæ anticæ valde acuminatæ.

A. Alæ anticæ costa fusca. - - - *Verbasci, Linn.*

B. Alæ anticæ costa nigricante. - *Scrophulariæ, Wien. Verz.*

B. Alæ anticæ minus acuminatæ.

A. Alæ anticæ vitta discali vix cinerea.

A. Alæ anticæ non nigro-fuscæ.

a. Alæ anticæ apud costam fuscæ.

i. Alæ anticæ apud costam obscuriores. *Lychnitis, Ramb.*

ii. Alæ anticæ apud costam vix obscuriores.

Thapsiphaga, Treit.

- b. Alæ anticæ apud costam nigræ. - Prenanthis, *Boisd.*
 B. Alæ anticæ nigro-fuscæ, apice pallidiores. - Celsiæ, *Friv.*
 B. Alæ anticæ vitta discali cinerea aut albida.
 A. Alæ posticæ ciliis pallidis. - - - Blattariæ, *Esp.*
 B. Alæ posticæ ciliis nigro guttatis. Scrophularivora, *Ramb.*
 c. Alæ posticæ ciliis obscuris. - Scrophulariphaga, *Ramb.*

1. CUCULLIA VERBASCI.

Lignicolora; caput fusco varium; thorax fascia vittisque duabus albidis fusco marginatis; abdomen cristis fuscis; alæ anticæ ferrugineo marginatæ, strigis discalibus pallide ferrugineis, vitta postica albida, strigis apud marginem interiorem nigricantibus et pallidis, punctis paucis discalibus fuscis; posticæ albidæ, margine fusco.

———, *Aldrov. Ins.* pl. 13, *Rai. Ins.* 168, 25; 352, 31. *Reaum, Ins.* i. pl. 43, f. 9—11. *Roës. Ins.* i. pl. 23, f. 1—5. *Frisch, Ins.* 6, pl. 9. *Merian, Ins. Eur.* iii. pl. 29. *Geoffr. Ins. Par.* ii. 158, 96. *Wilk. Pap.* 7, pl. 1, a. 15. *Sulz. Hist. Ins.* pl. 22, f. 7. *Engr. Pap. d'Eur.* 363, a—h. *Harris, Aurel.* pl. 8, f. a, d.

Phalæna-Noctua Verbasci, *Linn. Syst. Nat.* 850, 153; *Faun. Suec.* 1186. *Scop. Ent. Carn.* 521. *Gmel. ed. Syst. Nat.* i. 5, 2566, 153.

Noctua Verbasci, *Wien. Verz.* 73, 4. *Fabr. Sp. Ins.* ii. 239, 145; *Mant. Ins.* ii. 180, 291; *Ent. Syst.* iii. 2, 120, 353. *Esp. Schmett.* iv. pl. 139, f. 1—4. *Bork. Eur. Schmett.* iv. 303, 127. *Donov. Brit. Ins.* viii. pl. 257. *Hübner. Eur. Schmett. Noct.* pl. 55, f. 266. *Haw. Lep. Brit.* 20. *Dup. Hist. Nat. Lép. Fr.* vii. 392, pl. 124, f. 1, 2. *Frey. Beit.* pl. 82.

Cucullia Verbasci, *Hübner. Verz. Schmett.* 246, 2450. *Treit. Schmett.* v. 127, 18. *Meig. Handb.* 178, 79; *Syst. Besch.* iii. 2, 194, 1, pl. 111, f. 7. *Steph. Ill. Brit. Ent. Haust.* iii. 85. *Ramb. Ent. Soc. Ent. Fr.* ii. 9, pl. 1, f. 6. *Boisd. Ind. Méth.* 155, 1255. *Herr.-Schæff. Schmett. Eur.* ii. 313, 396. *Guen. Noct.* ii. 126, 848.

a—n. England. From Mr. Stephens' collection.

o—r. England.

s—u. Europe. From M. Becker's collection.

2. CUCULLIA SCROPHULARIÆ.

Pallide lignicolora ; caput ferrugineum ; thorax fascia duplicata vittisque duabus pallidis ferrugineo marginatis ; abdomen cristis nigricantibus ; alæ anticæ lineis nonnullis discalibus pallide ferrugineis, costa margineque interiore, guttis paucis discalibus albis, lineola discali e punctis nigris ; posticæ albidæ, margine fuscescente, ciliis albidis fusco interlineatis.

Noctua Scrophulariæ, *Wien. Verz. Ann.* 312. *Esp. Schmett.* iv. pl. 180, f. 4. *Bork. Eur. Schmett.* iv. 307, 128. *Sepp. Ins.* iii. pl. 15. *Naturf.* 1789, 91, pl. 3, f. 1—4. *Hübner. Eur. Schmett. Noct.* pl. 53, f. 260.

Cucullia Scrophulariæ, *Hübner. Verz. Schmett.* 246, 2451. *Treit. Schmett.* v. 130, 19. *Ramb. Ann. Soc. Ent. Fr.* ii. 14, pl. 1, f. 1, a. *Dup. Hist. Nat. Léop. Fr. Suppl.* vii. pl. 2, f. 1. *Steph. Ill. Brit. Ent. Haust.* iii. 85. *Boisd. Ind. Méth.* 155, 1254. *Herr.-Schæff. Schmett. Eur.* ii. 313, 397. *Guen. Noct.* ii. 127, 849.

Phalæna Verbasci, *Wilk.* pl. 15. *Scop. Ent. Carn.* 521. *Sulz-Ræm.* pl. 22, f. 7.

a—g. England. From Mr. Stephens' collection.

h, i. Europe. From M. Becker's collection.

j. Germany.

k. ———?

3. CUCULLIA LYCHNITIS.

Pallide lignicolora ; thorax lineis transversis albidis ; abdomen cristis nigricantibus ; alæ anticæ apud costam fusco-cinereæ, lineola discali e punctis nigris, strigis paucis exterioribus ferrugineis, vitta postica ferruginea nigro interlineata ; posticæ albidæ, margine fusco, ciliis albidis.

—————, *Engr. Pap. d' Eur.* 365, a, b.

Noctua Scrophulariæ, *Esp. Schmett.* iv. pl. 180, f. 4. *Dup. Hist. Nat. Léop. Fr.* vii. 396, pl. 124, f. 3. *Frey. Beit.* pl. 83.

Cucullia Scrophulariæ, *Treit. Schmett. Suppl.* 129.

Cucullia Lychnitis, *Ramb. Ent. Soc. Ent. Fr.* ii. 17, pl. 1, f. 3, e. *Dup. Hist. Nat. Léop. Fr. Suppl.* vii. pl. 2, f. 2. *Boisd. Ramb. et Grasl. Chen.* pl. 15, f. 3, 4. *Boisd. Ind. Méth.* 155, 1253. *Guen. Noct.* ii. 128, 850. *Herr.-Schæff. Eur. Schmett.* ii. 313, 398, pl. 40, f. 204?

Species distincta? *Cucullia rivulorum*, *Guen. Ess.* 509; *Ind.* 245.
France. Corsica.

a—d. England. From Mr. Stephens' collection.

e, f. England.

g, h. Europe. From M. Becker's collection.

4. CUCULLIA BLATTARIÆ.

Albido lignicolora; abdomen cristis nigricantibus; alæ anticæ costa fusco-cinerea, punctis discalibus nigris, vitta postica alba, margine interiore ferrugineo lineolis nigris; posticæ pallide cinerascens, margine latissimo fusco, ciliis albidis, fusco interlineatis.

Noctua Blattariæ, *Esp. Schmett.* iv. pl. 154, f. 4. *Bork. Eur. Schmett.* iv. 131. *Frey. Beit.* pl. 81?

Cucullia Blattariæ, *Treit. Schmett.* v. 125. *Boisd. Ind. Méth.* 155, 1250. *Herr.-Schæff. Schmett. Eur.* ii. 313, 399, pl. 40, f. 202, 203. *Guen. Noct.* ii. 129, 851.

Cucullia Caninæ, *Ramb. Ann. Soc. Ent. Fr.* ii. 19, pl. 1, f. 5, e. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 415, pl. 37, f. 2.

Noctua Thapsiphaga, *Dup. Léop.* vii. 398, pl. 124, f. 4.

France. Italy. Corsica. Dalmatia.

a—d. Europe. From M. Becker's collection.

5. CUCULLIA THAPSIPHAGA.

Pallide lignicolora; thorax lineis transversis albidis, fascia vittisque duabus fuscis; abdomen cristis nigris; alæ anticæ disco strigis albidis, costa cinerea, lineola undulata obliqua fusca, punctis discalibus nigris, apud vittam posticam ferrugineam nigro lineolatam; posticæ cinereæ, margine fusciscente, ciliis albo marginatis.

Cucullia Thapsiphaga, *Treits. Schmett.* v. 120, pl. 5, f. 3. *Ramb. Ann. Soc. Ent. Fr.* ii. 22, pl. 1, f. 2, b. *Boisd. Ind. Meth.* 155, 1251. *Guen. Noct.* ii. 130, 852.

Noctua Thapsiphaga, *Frey. Beit.* pl. 80

Cucullia Blattariæ? *Herr.-Schæff. Eur. Schmett.* ii. 313, 399, pl. 40, f. 202, 203.

Germany. France. Corsica. Sicily. Hungary.

a, b. Europe. From M. Becker's collection.

6. CUCULLIA SCROPHULARIVORA.

Fusca ; thorax lineis duabus obliquis albis ; abdomen cinerascens, vitta dorsali maculari nigricante ; alæ anticæ lineolis nebulisque nigricantibus, vitta postica alba ; posticæ testaceo-albæ, lineola discali margineque lato nigro-fuscis, ciliis albis nigro guttatis.

Cucullia Thapsiphaga, Dup. *Hist. Nat. Lép. Fr. Suppl.* iii. 405, pl. 36, f. 4.

Cucullia Scrophularivora, Ramb. *Guen. Ind.* 245 ; *Noct.* ii. 130, 853.

France. Spain. Hungary.

7. CUCULLIA SCROPHULARIPHAGA.

Cinerascens ; thorax lineis transversis albidis, fascia vittisque duabus fuscis ; abdomen cristis nigricantibus ; alæ anticæ guttis costalibus albidis, disco antice subcervino postice albido, lineola discali e punctis nigris, lineola undulata obliqua apud vittam posticam ferrugineam nigro lineolatam ; posticæ fuscae ciliis albido marginatis.

Cucullia Scrophulariphaga, Ramb. *Ann. Soc. Ent. Fr.* ii. 20, pl. 1, f. 4, d. *Boisd. Ind. Méth.* 155, 1250. Dup. *Hist. Nat. Lép. Fr. Suppl.* iii. 409, pl. 36, f. 5. *Guen. Noct.* ii. 131, 854.

Corsica.

a, b. Europe. From M. Becker's collection.

8. CUCULLIA PRENANTHIS.

Lignicolora ; caput, thoracis fascia abdominisque cristæ nigro-fusca ; thorax lineis transversis anticis albidis ; alæ anticæ costa nigro-fusca guttis exterioribus albidis, vitta postica albida, vitta marginali subinterrupta nigra ; posticæ cupreo-fuscescentes, ciliis albo marginatis.

Cucullia Prenanthis, *Boisd. Ind. Méth.* 154, 1249. *Guen. Noct.* ii. 132, 855.

Noctua Blattariæ, Dup. *Hist. Nat. Lép. Fr.* vii. pl. 401, f. 124.

Noctua Ceramanthæ, Frey. *Beitr.* v. pl. 432.

Cucullia Ceramanthæ, Frivaldsky. *Herr.-Schæff. Eur. Schmett.* ii. 311, 394, pl. 37, f. 185, 186.

Ukraine.

9. CUCULLIA CELSIÆ.

Nigro-fusca; thorax antice posticeque, abdomen et alarum anticarum triente exterior obliqua ligno-fuscis; posticæ fuscae, basi ciliisque pallidioribus.

Cucullia Celsiæ, Frivaldsky. Herr.-Schæff. Eur. Schmett. ii. 311, 393, pl. 36, f. 182. Guen. Noct. ii. 132, 856.

Salonica.

Group 2.

Alæ anticæ sæpissime cinereæ, lineolis nonnullis nigris, maculis nonnunquam conspicuis.

Fore wings generally cinereous, with some black lines; orbicular and reniform spots occasionally visible.

A. Alæ anticæ maculis conspicuis.

A. Alæ anticæ apud maculas non guttatæ.

a. Alæ anticæ plaga postica nulla, aut subobsoleta.

a. Alæ anticæ maculis bene determinatis.

i. Alæ anticæ fusco-cinereæ. -

Gnaphalii, *Hübner*.

ii. Alæ anticæ cinereæ. -

cineraceæ, *Frey*.

b. Alæ anticæ maculis non bene determinatis.

Xeranthemi, *Boisd.*

b. Alæ anticæ plaga postica pallida conspicua.

a. Alæ anticæ maculis determinatis.

i. Alæ anticæ fulvo variæ. -

spectabilis, *Hübner*.

ii. Alæ anticæ cervino variæ. -

propinqua, *Eversm.*

iii. Alæ anticæ ferrugineo variæ.

* Alæ anticæ maculis determinatis.

Fuchsiana, *Eversm.*

** Alæ anticæ maculis non bene determinatis.

Anthemidis, *Boisd.*

iv. Alæ anticæ ochraceo variæ. -

Achilleæ, *Boisd.*

b. Alæ anticæ maculis non determinatis.

fraudatrix, *Eversm.*

B. Alæ anticæ apud maculas guttatæ. -

Absinthii, *Linn.*

B. Alæ anticæ maculis obsoletis, aut subobsoletis.

A. Alæ anticæ apud costam fuscae.

a. Thorax antice fuscus. -

Asteris, *Wien. Verz.*

b. Thorax non antice fuscus.

- a. Alæ anticæ rufescente conspersæ. - mixta, *Frey*.
 b. Alæ anticæ non rufescente conspersæ. *Dracunculi, Hübn.*
 B. Alæ anticæ apud costam cinereæ.
 A. Alæ posticæ albæ.
 a. Alæ anticæ maculatæ.
 i. Minor. - - - - - *Santonici, Hübn.*
 ii. Major. - - - - - *odorata, Guen.*
 b. Alæ anticæ non maculatæ.
 i. Alæ anticæ punctis discalibus nigris.
 Boryphora, Fisch.
 ii. Alæ anticæ punctis nullis discalibus nigris.
 Tanaceti, Wien. Verz.
 B. Alæ posticæ plus minusve obscuræ.
 a. Alæ anticæ angustiores.
 i. Alæ anticæ striga postica nigra. - *Santolinæ, Ramb.*
 ii. Alæ anticæ striga nulla postica nigra.
 * Alæ anticæ cervino non tinctæ.
 † Macula reniformis obsoleta.
 ‡ Alæ anticæ albido nebulosæ. *præcana, Eversm.*
 ‡‡ Alæ anticæ albido non nebulosæ.
 § Alæ anticæ strigis nullis obliquis costalibus.
 × Alæ anticæ linea nulla marginali nigra.
 0 Obscurior. - *Chamomillæ, Wien. Verz.*
 00 Pallidior. - *Calendulæ, Dahl.*
 ×× Alæ anticæ linea marginali nigra.
 Umbratæ, Linn.
 §§ Alæ anticæ strigis obliquis costalibus.
 Campanulæ, Frey.
 †† Macula reniformis distincta, minima.
 pustulata, Eversm.
 ** Alæ anticæ cervino tinctæ. - *Virgaureæ, Boisd.*
 *** Alæ anticæ testaceo bivittatæ. - *biornata, Frey.*
 **** Alæ anticæ linea basali strigae discali luteis.
 Balsamitæ, Boisd.
 b. Alæ anticæ latiores.
 † Alæ anticæ lineis angulosis conspicuis.
 lucifuga, Wien. Verz.
 †† Alæ anticæ lineis angulosis non conspicuis.
 Lactucæ, Wien. Verz.

10. CUCULLIA ASTERIS.

Cinerea; caput nigro-fuscum; thorax antice lignicolor, fascia vittisque duabus nigris; abdomen nigro cristatum; alæ anticæ apud costam lignicolores, orbiculari et reniformi albidis subquadratis, vitta postica ferruginea nigro lineata; posticæ fusco-cupreæ, ciliis albis.

—————, *Engr. Pap. d' Eur.* 364, a—c.

Noctua Asteris, *Wien. Verz.* 312, 10. *Fabr. Mant. Ins.* ii. 180, 292; *Ent. Syst.* iii. 2, 121, 364. *Esp. Schmett.* iv. pl. 154, pl. 2, 3. *Bork. Eur. Schmett.* iv. 310, 129. *Hübner. Eur. Schmett. Noct.* pl. 53, f. 260. *Haw. Lep. Brit.* 22. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 125, f. 1.

Phalæna-Noctua Asteris, *Gmel. ed. Syst. Nat.* i. 5, 2566, 1138.

Euderæa Asteris, *Hübner. Verz. Schmett.* 245, 2438.

Cucullia Asteris, *Treit. Schmett.* v. 118, 15. *Meig. Handb.* 178, 78; *Syst. Besch.* iii. 195, 3, pl. 111, f. 9. *Curt. Brit. Ent.* pl. 45. *Steph. Ill. Brit. Ent. Haust.* iii. 86. *Boisd. Ind. Méth.* 154, 1248. *Herr.-Schæff. Schmett. Eur.* ii. 311, 395. *Guen. Noct.* ii. 133, 857.

a—c. England. From Mr. Stephens' collection.

d—f. England.

g—j. Europe. From M. Becker's collection.

k, l. Europe.

11. CUCULLIA GNAPHALII.

Fusco-cinereascens; thorax fascia nigra; alæ anticæ lineis incompletis nigris, orbiculari et reniformi magnis subquadratis cano marginatis, gutta postica cana; posticæ fuscæ, ciliis albidis.

Noctua Gnaphalii, *Hübner. Eur. Schmett. Noct.* pl. 126, f. 582, 583. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 125, f. 4. *Frey. Neue Beitr.* pl. 5.

Eucalimia Gnaphalii, *Hübner. Verz. Schmett.* 245, 2440.

Cucullia Gnaphalii, *Treit. Schmett.* v. 87, 2. *Meig. Syst. Besch.* iii. 196, 5, pl. 111, f. 11. *Eversm. Faun. Volg-Ural.* 309. *Boisd. Ind. Méth.* 153, 1227. *Herr.-Schæff. Schmett. Eur.* ii. 309, 389, pl. 40, f. 200, 201. *Guen. Noct.* ii. 134, 861.

Cucullia Thapsiphaga? *Steph. Ill. Brit. Ent. Haust.* iii. 87.

a. England.

b. Odessa. Presented by Dr. Dowler.

c—g. Europe. From M. Becker's collection.

h. Europe.

12. CUCULLIA XERANTHEMI.

Cinerea ; thorax fascia antica nigra ; abdomen pallidum, cristis nigris ; alæ anticæ lineis lanceolatis canis et fusciscentibus, orbiculari et reniformi parvis indistinctis albido marginatis, lineola postica submarginali guttisque marginalibus nigris ; posticæ cinerascens, semihyalinæ, margine lato fusco-cupreo, ciliis albidis.

Cucullia Xeranthemi, *Boisd. Ind. Méth.* 153, 1228. *Herr.-Schæff. Schmett. Eur.* ii. 309, 390, pl. 39, f. 195 ; pl. 94, f. 481. *Guen. Noct.* ii. 135, 862.

South France.

13. CUCULLIA ABROTANI.

Cinerea ; abdomen albidum, vitta dorsali nigricante ; alæ anticæ nebulosæ, lineis transversis denticulatis nigris, orbiculari et reniformi magnis distinctis albido nigroque marginatis, striga postica fasciæque obliqua exteriore albidis ; posticæ albidæ, fusco latissime marginatæ, ciliis albis.

———, *Roës. Ins.* iii. pl. 51, f. 1—4. *Engr. Pap. d' Eur.* 362, a, f.

Noctua Abrotani, *Wien. Verz.* 73, 2. *Fabr. Mant. Ins.* ii. 166, 211 ; *Ent. Syst.* iii. 2, 88, 262. *Bork. Eur. Schmett.* iv. 284, 120. *Hübner. Eur. Schmett. Noct.* pl. 53, f. 257. *Dup. Hist. Nat. Lép. Fr.* vii. 415, pl. 125, f. 6. *Frey. Beitr.* iv. pl. 320.

Phalæna-Noctua Abrotani, *Gmel. ed. Syst. Nat.* i. 5, 2559, 1118.

Noctua Artemisiæ, *Knoch, Beitr.* 47, pl. 2, f. 10. *Fuessl. Ins.* 6. *Esp. Schmett.* iv. pl. 128.

Eucalimia Abrotani, *Hübner. Verz. Schmett.* 135, 863.

Cucullia Abrotani, *Treit. Schmett.* v. 88, 3. *Meig. Handb.* 179, 81 ; *Syst. Besch.* iii. 197, 6, pl. 112, f. 7. *Boisd. Ind. Méth.* 153, 1232. *Herr.-Schæff. Schmett. Eur.* ii. 309, 388. *Guen. Noct.* ii. 135, 863.

a—e. Europe. From M. Becker's collection.

f. Germany.

14. CUCULLIA ABSINTHII.

Cana ; abdomen albidum ; alæ anticæ cinerascens, guttis discalibus et marginalibus fasciæque diffusa interiore nigris ; posticæ albidæ, fusciscente marginatæ, ciliis albis.

- , *Röes. Ins.* i. pl. 61. *Engr. Pap. d'Eur.* 361, a, e
Frisch. Ins. 7, pl. 12. *Geoffr. Ins. Par.* ii. 158, 95.
Phalæna-Noctua Absinthii, *Linn. Syst. Nat.* 845, 133; *Faun. Suec.*
 1182. *Clerck, Icon.* pl. 8, f. 19. *Gmel. ed. Syst. Nat.* i. 5,
 2558, 133.
Noctua Absinthii, *Wien. Verz.* 73, 1. *Fabr. Sp. Ins.* ii. 230, 109;
Mant. Ins. ii. 166, 210; *Ent. Syst.* iii. 2, 88, 261. *Esp.*
Schmett. iv. pl. 116, f. 1—3. *Bork. Eur. Schmett.* iv. 281, 119.
Hübner. Eur. Schmett. Noct. pl. 53, f. 258. *Dup. Hist. Nat.*
Lép. Fr. vii. 418, pl. 125, f. 7. *Frey. Beitr.* iv. pl. 321.
Haw. Lep. Brit. 23. *Donov. Brit. Ins.* ix. 304.
Noctua punctigera, *Berl. Mag.* iii. 100.
Eucalimia Absinthii, *Hübner. Verz. Schmett.* 246, 2444.
Cucullia Absinthii, *Treit. Schmett.* v. 92, 4. *Meig. Handb.* 179,
 82; *Syst. Besch.* iii. 197, 7, pl. 111, f. 12. *Steph. Ill. Brit.*
Ent. Haust. iii. 91. *Boisd. Ind. Méth.* 153, 1233. *Herr.-*
Schæff. Schmett. Eur. ii. 310, 392. *Guen. Noct.* ii. 136, 864.
a—f. England. From Mr. Stephens' collection.
g—j. England.
k—n. Europe. From M. Becker's collection.
o. Europe.

15. CUCULLIA PROPINQUA.

*Cinerea, nigro cervinoque varia; alæ anticæ lineis lanceolatis
 et macularum marginibus pallidioribus, striga discali postica
 alba; posticæ margine lato nigricante, ciliis albis.*

- Cucullia propinqua*, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1848, pl.
 5, f. 7; *Faun. Volg-Ural.* 309. *Herr.-Schæff. Schmett. Eur.*
 ii. 307, 383, pl. 37, f. 187. *Guen. Noct.* ii. 136, 865.

Ural Region.

16. CUCULLIA SPECTABILIS.

*Glauco-cinerea; thorax fulvo varius; alæ anticæ lineis transversis
 angulosis fulvis nigro marginatis, orbiculari testacea albo
 marginata, macula postica alba, reniformi nigricante fulvo
 marginata, linea submarginali alba, guttis marginalibus
 nigris; posticæ pallidæ, litura discali margineque latissimo
 cinereis, ciliis albidis.*

- Noctua spectabilis*, *Hübner. Eur. Schmett. Noct.* f. 557. *Dup. Hist.*
Nat. Lép. Fr. vii. 413, pl. 125.

Periphanes spectabilis, Hübn. Verz. Schmett. 248, 2457.

Cucullia spectabilis, Treit. Schmett. v. 86. Eversm. Faun. Volg-Ural. 310. Boisd. Ind. Méth. 153, 1226. Herr.-Schæff. Schmett. Eur. ii. 307, 382, pl. 38, f. 193. Guen. Noct. ii. 137, 866.

South Russia.

17. CUCULLIA FUCHSIANA.

Cinerea; alæ anticæ ferrugineo variæ, lineis lanceolatis et macularum marginibus albidis nigrisque; posticæ margine latissimo obscuriore, ciliis albis.

Cucullia Fuchsiana, Eversm. Bull. Soc. Imp. Nat. Mosc. 1839, pl. 5, f. 6; Faun. Volg-Ural. 306. Dup. Hist. Nat. Lép. Fr. Suppl. iv. 229, pl. 70, f. 2. Herr.-Schæff. Schmett. Eur. ii. 308, 385, pl. 38, f. 192. Guen. Noct. ii. 137, 867.

Ural Region.

18. CUCULLIA FRAUDATRIX.

Cinerea; thorax fascia antica nigra; abdomen pallidum; alæ anticæ striga basali, fascia angulata interiore, lineolis duabus inter maculas strigisque tribus exterioribus nigris, orbiculari et reniformi necnon macula postica fasciæque obliqua exteriore canis; posticæ cinerascens, margine fusciscente, ciliis albidis.

Cucullia fraudatrix, Eversm. Bull. Soc. Imp. Nat. Mosc. 1837, 1; Faun. Volg-Ural. 306. Guen. Noct. ii. 137, 868.

Noctua fraudatrix, Frey. Beitr. v. pl. 388.

Cucullia Pontica, Boisd. Ind. Meth. 153, 1234.

Cucullia Pyrethri, Herr.-Schæff. Schmett. Eur. ii. 310, 391, pl. 36, f. 183.

South Russia.

1. b. Europe. From M. Becker's collection.

2. Ukraine. Presented by Dr. Dowler.

19. CUCULLIA CINERACEA.

Cinerea; abdomen testaceo-cinereum; alæ anticæ lineis lanceolatis et macularum marginibus canis, orbiculari et reniformi subquadratis bene determinatis; posticæ pallidæ, margine cinereo, ciliis albis.

Noctua cineracea, *Freyer, Neue Beitr.* pl. 352, f. 2; *Ent. Zeit. Stett.* ii. 108.

Cucullia cineracea, *Herr.-Schæff. Schmett. Eur.* ii. 309, 387, pl. 39, f. 196. *Guen. Noct.* ii. 138, 869.

South Russia.

20. CUCULLIA SANTONICI.

Cana; caput et thorax lineis transversis nigricantibus; abdomen sordide albidum; alæ anticæ ocellis duobus discalibus strigisque lanceolatis nigris, marginibus cinerascentibus; posticæ albidæ, venis margineque fusciscentibus.

Noctua Santonici, *Hübner. Eur. Schmett. Noct.* f. 584, 585, *Freyer, Neue Beitr.* iv. pl. 357; *Ent. Zeit. Stett.* ii. 109. *Dup. Hist. Nat. Léop. Fr.* vii. 407, pl. 125, f. 2.

Cucullia Santonici, *Eversm. Faun. Volg-Ural.* 306. *Boisd. Ind. Méth.* 153, 1229. *Dup. Suppl.* iii. 398, pl. 36. *Herr.-Schæff. Schmett. Eur.* ii. 308, 386. *Guen. Noct.* ii. 138, 870. *Meig. Syst. Besch.* iii. 196, 4, pl. 111, f. 10.

Eucalimia Santonici, *Hübner. Verz. Schmett.* 245, 2443.

East France. Valais. Ural Region.

a. Europe. From M. Becker's collection.

21. CUCULLIA ODORATA.

C. Santonici simillima, major; palporum articulus 3us pilis 2i magis tecta; alæ anticæ latiores, minus lanceolatæ, plus glaucescentes, orbiculari majore, striga basali apud alam tenuiore.

Cucullia odorata, *Guen. Noct.* ii. 139, 871.

Valais.

22. CUCULLIA ACHILLEÆ.

Cinereo-alba; alæ anticæ maculis lineisque vix ullis, apices versus subdilatatæ, ex parte ochraceo subinctæ, striga basali, linea apud marginem interiorem punctisque nigris; posticæ albæ, punctis marginalibus, fœm. nigricante subinctæ.

Cucullia Achilleæ, *Boisd. MSS. Guen. Noct.* ii. 139, 872.

South Spain.

23. CUCULLIA ANTHEMIDIS.

Cinerea; palpi sat ascendentes; thorax linea antica nigra; alæ anticæ ex parte rufescente pallido subtinctæ, apud marginem anteriorem subquadratæ, maculis subobsoletis et punctis nigris, linea extrabasilari sat conspicua et striga basilari longa tenui nigra divisa; posticæ nigricante cinereæ, basi albæ. Fœm. — Alæ anticæ ex parte plus rufescentes, strigis obscuris distinctioribus.

Cucullia Anthemidis, *Boisd. MSS. Guen. Noct. ii. 140, 873.*

South France.

24. CUCULLIA BORYPHORA.

Albida; alæ anticæ cinerascens, lineis lanceolatis albidis, punctis paucis discalibus guttisque marginalibus nigris, orbiculari et reniformi indistinctis; posticæ albæ, margine angusto cinereo.

Cucullia Boryphora, *Fisch. Bull. Mosc. 1840, 85, pl. 3, f. 3. Eversm. Faun. Volg-Ural. 305. Herr.-Schæff. Schmett. Eur. ii. 315, 404, pl. 99, f. 508. Guen. Noct. ii. 140, 874.*

Cucullia lignata, *Kind. Guen. Ind. 246.*

Cucullia rimula, *Freyer, Neue Beitr. pl. 352, f. 1; Ent. Zeit. Stett. ii. 108.*

Sarepta.

25. CUCULLIA TANACETI.

Cana; antennæ fusæ, basi albæ; abdomen albidum; alæ anticæ substrigatæ, linea interrupta discali nigra; posticæ albidæ, marginibus fuscis.

———, *Engr. Pap. d'Eur. 366, a—c.*

Noctua Tanaceti, *Wien. Verz. 73, 5. Fabr. Mant. Ins. ii. 181, 294; Ent. Syst. iii. 2, 121, 366. Bork. Eur. Schmett. iv. 199, 126. Hübn. Eur. Schmett. Noct. pl. 54, f. 265. Dup. Hist. Nat. Léop. Fr. vii. 429, pl. 126, f. 4. Knoch, Beitr. ii. 29, pl. 2, f. 1—9.*

Cucullia Tanaceti, *Treit. Schmett. v. 100. Meig. Syst. Besch. iii. 198, 8, pl. 112, f. 4. Eversm. Faun. Volg-Ural. 302. Dup. Suppl. vii. pl. 2, f. 3. Boisd. Ind. Méth. 154, 1240. Herr.-Schæff. Schmett. Eur. ii. 315, 405. Guen. Noct. ii. 141, 875.*

Phalæna-Noctua Tanaceti, *Gmel. Syst. Nat.* i. 5, 2567, 1140.
 Callænia Tanaceti, *Hübner. Verz. Schmett.* 246, 2449.

a—d. Europe. From M. Becker's collection.

e, f. Europe.

26. CUCULLIA CHAMOMILLÆ.

Cinerea ; thorax fasciis duabus anticis fuscis unaque submarginali nigra ; alæ anticæ lineis nigris, guttis costalibus subapicalibus albidis ; posticæ fusco-cinerascentes, ciliis albis.

Noctua Chamomillæ, *Wien. Verz.* 73, 3. *Fabr. Mant. Ins.* ii. 180, 293 ; *Ent. Syst.* iii. 2, 121, 365. *Sepp. Ins.* iii. pl. 25, f. 6. *Esp. Schmett.* iv. pl. 193, f. 1, 2. *Bork. Eur. Schmett.* iv. 290, 122. *Hübner. Eur. Schmett. Noct.* pl. 54, f. 261. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 126, f. 3. *Haw. Lep. Brit.* 15.

Phalæna-Noctua Chamomillæ, *Gmel. ed. Syst. Nat.* i. 5, 2565, 113.
 Cucullia Chamomillæ, *Treit. Schmett.* v. 111, 12. *Meig. Syst. Besch.* iii. 198, 9, pl. 112, f. 3. *Steph. Ill. Brit. Ent. Haust.* iii. 89. *Boisd. Ind. Méth.* 154, 1244. *Herr.-Schæff. Schmett. Eur.* ii. 315, 406. *Guen. Noct.* ii. 142, 876.

Noctua lucifuga, *Dup. Hist. Nat. Léop. Fr.* vii. 432, pl. 127, f. 1.

Noctua fissina, *Haw. Lep. Brit.* 19.

Cucullia fissina, *Steph. Ill. Brit. Ent. Haust.* iii. 90.

Var. Noctua Chrysanthemi, *Hübner. Eur. Schmett. Noct.* f. 686.

Cucullia Chrysanthemi, *Treit. Schmett.* v. 114.

a—d. England. From Mr. Stephens' collection.

e, f. England.

g—i. Europe. From M. Becker's collection.

j. Europe.

h. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

l. Trenton Falls, New York. Presented by E. Doubleday, Esq.

27. CUCULLIA CALENDULÆ.

C. Chamomillæ simillima, coloribus dilutioribus.

Cucullia Calendulæ, *Dahl. MSS. Guen. Noct.* ii. 143, 877.

Cucullia Chamomillæ, var. *Treit. Schmett. Suppl.* 127. *Boisd. Ind. Méth.* 154, 1244. *Guen. Noct.* 246.

Sicily.

28. CUCULLIA WREDOWII.

C. Chamomillæ affinis.

Cucullia Wredowii, *Costa, Faun.* 23, pl. 14. *Guen. Noct.* ii. 143, 878.

Naples.

29. CUCULLIA SANTOLINÆ.

Canæ; abdomen sordide cinerascens; alæ anticæ fuscae subcinereo albidoque variæ, venis nigricantibus, lineolis duabus ad marginem nigris, macula subcentrali albida; posticæ fuscæ, ciliis albis.

Cucullia Santolinæ, *Ramb. Ann. Soc. Ent. Fr.* iii. 387, pl. 8, f. 4, 4 a. *Boisd. Ind. Méth.* 153, 1230. *Dup. Suppl.* iii. 418, pl. 37. *Herr.-Schæff. Schmett. Eur.* ii. 315, 403, pl. 39, f. 198. *Guen. Noct.* ii. 144, 879.

South France. Corsica.

a—c. Europe. From M. Becker's collection.

30. CUCULLIA LUCIFUGA.

Cinerea; abdomen fusco-cinerascens; alæ anticæ lineis angulosis strigisque exterioribus fuscis, maculis obsoletis; posticæ cinerascens, margine lato fusco, ciliis albis.

———, *Roës. Ins.* i. 2, pl. 25, f. 1, 2, 4, 5; iii. pl. 71, f. 10. *Engr. Pap. d'Eur.* vi. pl. 248, f. 369, a. *Noctua lucifuga*, *Wien. Verz. Schmett.* 312, 11. *Hübner. Eur. Schmett. Noct.* pl. 54, f. 262.

Cucullia lucifuga, *Ramb. Ann. Soc. Ent. Fr.* iii. 179. *Boisd. Ind. Méth.* 154, 1246. *Herr.-Schæff. Schmett. Eur.* ii. 314, 402. *Guen. Noct.* ii. 144, 880.

Cucullia lucifuga? *Meig. Syst. Besch.* iii. 200, 13, pl. 112, f. 6.

Alps.

a. Europe. From M. Becker's collection.

31. CUCULLIA LACTUÆ.

Cinereo-cana; antennæ fuscae, basi albæ; alæ anticæ lineolis lanceolatis liturisque marginalibus nigris; posticæ cinereæ. *Fœm.*—Alæ posticæ margine lato fusco.

- , *Roës. Ins.* i. pl. 42, f. 1—5. *Engr. Pap. d'Eur.* vi. pl. 248, f. 386, a—d.
- Noctua Lactucæ, *Wien. Verz.* 74, 7. *Fabr. Mant. Ins.* ii. 181, 295; *Ent. Syst.* iii. 2, 122, 367. *Esp. Schmett.* iv. pl. 137, f. 4—6. *Bork. Eur. Schmett.* iv. 297, 125. *Hübner. Eur. Schmett. Noct.* pl. 54, f. 264. *Dup. Hist. Nat. Léop. Fr.* vii. 424, pl. 126, f. 2.
- Phalæna-Noctua Lactucæ, *Gmel. ed. Syst. Nat.* i. 5, 2567, 1141.
- Cucullia Lactucæ, *Treit. Schmett.* v. 109, 11. *Meig. Handb.* 180, 84; *Syst. Besch.* iii. 200, 12, pl. 112, f. 2. *Ramb. Ann. Soc. Ent. Fr.* iii. 182. *Boisd. Ind. Méth.* 154, 1246. *Herr.-Schæff. Schmett. Eur.* ii. 317, 410. *Guen. Noct.* ii. 144, 880.
- Callænia Lactucæ, *Hübner. Verz. Schmett.* 246, 2446.
- a—d. Europe. From M. Becker's collection.

32. CUCULLIA PUSTULATA.

- Cinerea*; thorax lineis transversis obscurioribus, alæ anticæ lineatæ, vittis duabus incompletis pallidioribus, strigis obliquis costalibus obscurioribus, guttis marginalibus nigris, orbiculari obsoleta, reniformi distincta minima; posticæ pallidæ, margine latissimo nigro-cinereo, ciliis albidis.
- Cucullia pustulata, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1842, 3; *Faun. Volg-Ural.* 302. *Herr.-Schæff. Schmett. Eur.* ii. 316, 408, pl. 37, f. 189. *Guen. Noct.* ii. 145, 882.
- Ural Region.

33. CUCULLIA CAMPANULÆ.

- Cinerea*; thorax lineis transversis obscurioribus, alæ anticæ lineatæ, vittis subobsoletis pallidioribus, punctis marginalibus nigricantibus, strigis obliquis costalibus obscurioribus, la remota, 2a 3aque approximatis, orbiculari et reniformi obsoletis; posticæ pallidæ, litura discali margineque latissimo nigro-cinereis..
- Noctua Campanulæ, *Frey. Beit.* i. 64, pl. 35.
- Cucullia Campanulæ, *Guen. Noct.* ii. 146, 883.
- Cucullia Campanulæ? *Eversm. Faun. Volg-Ural.* 301. *Herr.-Schæff. Schmett. Eur.* ii. 316, 407, pl. 37, f. 188.
- Bavaria. Ural Region.

34. CUCULLIA PRÆCANA.

Pallide cinerea; alæ anticæ albido nebulosæ, guttis discalibus, strigis exterioribus punctisque marginalibus nigris; posticæ fuscæ, margine obscuriore, ciliis albis.

Cucullia præcana, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1843, No. 3; *Faun. Volg.-Ural.* 304. *Herr.-Schæff. Schmett. Eur.* ii. 316, 409, pl. 99, f. 509. *Guen. Noct.* ii. 146, 884.

Ural Region.

35. CUCULLIA UMBRATICA.

Cana; thorax fasciis pallide fuscis unaque antica nigra; abdomen fusco vittatum; alæ anticæ substrigatæ, lineis incompletis angulosis strigisque exterioribus guttis paucis discalibus nigris; posticæ maris albæ venis margineque tenui fuscis, fæminæ fuscis basi pallidioribus.

———, *Roës. Ins.* i. pl. 25, f. 3, 6. *Reaum. Ins.* i. pl. 43, f. 9, 11. *Schæff. Ins.* iii. pl. 212. *Engr. Pap. d'Eur.* 369, c—e.

Phalæna-Noctua umbratica, *Linn. Syst. Nat.* 849, 150; *Faun. Suec.* 1184; *Gmel. ed. Syst. Nat.* i. 5, 2564, 150.

Noctua umbratica, *Wien. Verz.* 74, 8. *Fabr. Sp. Ins.* ii. 240, 146; *Mant. Ins.* ii. 182, 296; *Ent. Syst.* iii. 2, 122, 368. *Sepp, Ins.* iii. pl. 25, f. 7. *Esp. Schmett.* iv. pl. 137, f. 1—3. *Bork. Eur. Schmett.* iv. 292, 123. *Hübner. Eur. Schmett. Noct.* pl. 54, f. 263. *Dup. Hist. Nat. Léop. Fr.* vii. 421, pl. 26, f. 1. *Haw. Lep. Brit.* 14. *Donov. Brit. Ins.* pl. 262, f. 2.

Noctua Lactucæ, *Hübner. Noct.* pl. 54, f. 264. *Haw. Lep. Brit.* 17?

Noctua lucifuga, *Esp. Schmett.* iv. pl. 178, f. 6. *Bork. Eur. Schmett.* iv. 296 (larv.).

Cucullia umbratica, *Treit. Schmett.* v. 105, 10. *Meig. Handb.* 179, 83; *Syst. Besch.* iii. 199, 11, pl. 112, f. 1. *Ramb. Ann. Soc. Ent. Fr.* iii. 182. *Steph. Ill. Brit. Ent. Haust.* iii. 87. *Boisd. Ind. Méth.* 154, 1243. *Herr.-Schæff. Schmett. Eur.* ii. 317, 411. *Guen. Noct.* ii. 146, 885.

Callænia umbratica, *Hübner. Verz. Schmett.* 246, 2445.

Cucullia Lactucæ, *Treit. Schmett.* v. 110. *Steph. Ill. Brit. Ent. Haust.* iii. 88.

Cucullia Tanacetii, *Steph. Ill.* iii. 88.

a—k. England. From Mr. Stephens' collection.

l—p. England.

q, r. Europe. From M. Becker's collection.

36. CUCULLIA BIORNATA.

Pallide cinerea, thorax lineis transversis obscurioribus, postice subtestaceus; alæ anticæ lineatæ, vittis duabus subtestaceis, maculis obsoletis, punctis marginalibus nigris; posticæ albidæ, margine lato cinereo, ciliis albis.

Noctua biornata, Freyer, *Neue Beit.* iv. pl. 352, f. 4; *Ent. Zeit. Stett.* ii. 109.

Cucullia biornata, Eversm. *Faun. Volg-Ural.* 300; Herr.-Schæff. *Schmett. Eur. Noct.* ii. 317, 413, pl. 39, f. 197. Guen. *Noct.* ii. 147, 886.

Sarepta.

37. CUCULLIA BALSAMITÆ.

Cana; alæ anticæ lineis transversis distinctis obscurioribus; abdomen cinerascens; alæ anticæ lineis lanceolatis obscurioribus, linea basali strigaeque discali luteis, maculis obsoletis; posticæ cinerascens, margine obscuriore, ciliis albis.

Noctua Balsamitæ, Frey. *Neue Beit.* iv. pl. 358; *Ent. Zeit. Stett.* ii. 109.

Cucullia Balsamitæ, Boisd. *Ind. Méth.* 154, 1242. Eversm. *Faun. Volg-Ural.* 303. Dup. *Hist. Nat. Léop. Fr. Suppl.* iv. 77, pl. 57. Herr.-Schæff. *Schmett. Eur.* ii. 317, 412, pl. 39, f. 199. Guen. *Noct.* ii. 147, 887.

38. CUCULLIA VIRGAURÆ.

Cinerea; thorax subfasciatus; abdomen testaceo-cinerascens, cristis nigris; alæ anticæ cervino pallido ex parte tinctæ, lineis subobsoletis fuscescentibus, striga apud angulum interiorem fusca, lunulis marginalibus nigricantibus; posticæ subcinereæ, margine fuscescente, ciliis albis.

Cucullia Virgauræ, Boisd. *Ind. Méth.* 154, 1247. Guen. *Noct.* ii. 148, 888.

Cucullia Dracunculi, Eversm. *Faun. Volg-Ural.* 304. Herr.-Schæff. *Schmett. Eur.* ii. 314, 400, pl. 38, f. 194.

South Russia.

39. CUCULLIA DRACUNCULI.

Cinerea ; thorax lineis transversis obscurioribus ; abdomen cinerascens ; alæ anticæ lineis lanceolatis obscurioribus, apud costam fuscescentes ; posticæ cinerascens, margine fuscescente.

Noctua Dracunculi, Hubn. Eur. Schmett. Noct. f. 586. Dup. Hist. Nat. Lép. Fr. vii. 409, pl. 125.

Euderacea Dracunculi. Hübn. Verz. Schmett. 245, 2439.

Cucullia Dracunculi, Treit. Schmett. v. 104. Boisd. Ind. Méth. 154, 1241. Guen. Noct. ii. 149, 889.

Cucullia incana, Eversm. Bull. Soc. Imp. Nat. Mosc. 1842.

Ural Region.

a, b. Europe. From M. Becker's collection.

40. CUCULLIA MIXTA.

Obscure cinerea, rufescente conspersa ; thorax fasciis obscurioribus ; alæ anticæ triente basali pallido vittata.

Noctua mixta, Frey. Neue Beit. iv. pl. 352, f. 23 ; Ent. Zeit. Stett. ii. 108.

Cucullia Dracunculi??

Group 3.

Color omnino albus.

Colour wholly white.

41. CUCULLIA LACTEA.

Alba ; abdomen albidum ; alæ anticæ fuscescente subobsolete conspersæ ; posticæ apud marginem subconspurcatæ, ciliis albis.

Noctua lactea, Fabr. Mant. Ins. ii. 182, 297 ; Ent. Syst. iii. 2, 123, 369. Esp. Schmett. iv. pl. 190, f. 1. Hübn. Eur. Schmett. Noct. pl. 95, f. 448. Dup. Hist. Nat. Lép. Fr. vii. pl. 127, f. 3.

Phalæna-Noctua lactea, Gmel. ed. Syst. Nat. i. 5, 2565, 1133.

Empusa lactea, Hübn. Verz. Schmett. 247, 2452.

Cucullia lactea, Treit. Schmett. v. 99. Meig. Syst. Besch. iii. 202, 16, pl. 111, f. 13. Boisd. Ind. Méth. 154, 1239. Dup. Hist. Nat. Lép. Fr. Suppl. iii. 400, pl. 36. Eversm. Faun. Volg-Ural. 299. Herr.-Schæff. Schmett. Eur. ii. 317, 414. Guen. Noct. ii. 148, 890.

South Russia.

a, b. Europe. From M. Becker's collection.

North America.

Group 1.

Like the second European group.

42. CUCULLIA ASTEROIDES.

Cinerea ; thorax lineis et abdomen vitta nigricantibus ; alæ anticæ apud costam fuscescentes, margine interiore strigisque duabus apud angulum interiorem fuscis ; posticæ albæ, margine lato fusco.

Cucullia Asteroides, *Guen. Noct.* ii. 133, 858.

a, b. New York. Presented by E. Doubleday, Esq.

43. CUCULLIA POSTERA.

Cinerea ; thorax lineis transversis obscurioribus ; alæ anticæ lineatæ, apud costam fuscescentes, maculis albedo marginatis, lituris duabus apud angulum interiorem nigris albidisque ; posticæ subcinereæ, margine lato fusco, ciliis albis.

Cucullia postera, *Guen. Noct.* ii. 133, 859.

a. Northern United States. Presented by E. Doubleday, Esq.

44. CUCULLIA FLOREA.

Cinerea ; thorax lineis transversis fuscis ; alæ anticæ lineatæ, costa margine interiore guttisquæ quadratis discalibus fuscis, striga apud angulum interiorem nigra ; posticæ pallidæ, margine fuscescente.

Cucullia florea, *Guen. Noct.* ii. 134, 860.

a. New York. Presented by E. Doubleday, Esq.

Africa.

45. CUCULLIA ASYLAS.

Albida ; alæ anticæ pallidissime cervinæ, nigro subconspersæ, vitta discali alba ; posticæ albæ, lineis pallidissime cervinis.

Phalæna Asylas, *Cram. Pap. Exot.* ii. 62, pl. 137, f. C.

Cape.

Country unknown.

46. CUCULLIA CLAUSA.

Mas. *Cinerea*; caput et thorax anticus fusca; abdomen alas posticas fere dimidio superans, apice fasciculatum; alæ anticæ perangustæ, fusco substrigatæ, lineis transversis angulosis guttisque nonnullis discalibus fuscis, macula nigricante subquadrata inter orbicularem et reniformem pallidas indistinctas, guttis marginalibus obscure fuscis; posticæ cinereæ, margine fusciscente, ciliis pallidis.

Male. Nearly allied to *C. Absinthii*. Cinereous. Head and fore part of the thorax brown. Abdomen extending for nearly half its length beyond the hind wings, tufted at the tip. Fore wings very narrow, slightly streaked with pale brown; transverse lines angulose, brown; some brown dots about the orbicular and reniform spots, which are pale and indistinct, and have a blackish subquadrate spot between them; a row of dark brown marginal dots. Hind wings cinereous, with brownish borders, and with pale ciliæ. Length of the body 6 lines; of the wings 12 lines.

a. ———?

Genus 14. ARGYRITIS.

Corpus sat validum. Proboscis mediocriter longa. Palpi porrecti, caput paullo superantes; articulus 3us longi-conicus, 2i dimidio æqualis. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas plus minusve superans. Pedes sat validi; tibiæ posticæ calcaribus quatuor longiusculis. Alæ anticæ argenteæ, lanceolatæ, plus minusve angustæ, viridi sæpissime variæ.

Argyritis, Hübn. Verz. Schmett. 247.

Cucullia, p., Ochs.; Treit.; Boisd.; Dup.; Steph.; Curt.; Guen.

Body moderately stout. Proboscis moderately long. Palpi porrect, extending a little beyond the head; third joint elongate-conical, full half the length of the second. Antennæ simple, more than half the length of the body. Abdomen extending more or less beyond the hind wings. Legs moderately stout; hind tibiæ with rather long spurs. Fore wings lanceolate, silvery, generally varied with green, more or less narrow.

Europe.

- A. *Alæ anticæ immaculatæ.* - - - *splendida, Cram.*
 B. *Alæ anticæ olivaceæ, vitta argentea.* - - *argentina, Fabr.*
 C. *Alæ anticæ virides, fasciis argenteis.* - *Artemisiæ, Cram.*
 D. *Alæ anticæ argenteæ, olivaceo variæ.* - *magnifica, Frey.*

1. ARGYRITIS SPLENDIDA.

Alba; thorax cinereo fasciatus; abdomen subtestaceum; alæ argenteæ, ciliis subtestaceis; posticæ margine lato cinerascete.

Phalæna-Pyralis splendida, Cram. Pap. Exot. iv. 242, pl. 400, f. F.

Cucullia splendida, Dup. Hist. Nat. Lép. Fr. Suppl. iii. 428, pl. 38. Herr.-Schæff. Schmett. Eur. ii. 318, 415, pl. 38, f. 190. Guen. Noct. ii. 150, 891.

Cucullia argyrea, Kind. Boisd. Ind. Méth. 154, 1237.

Noctua argyrea, Frey. Beitr. iv. pl. 304, f. 2.

South Russia.

a. Europe. From M. Becker's collection.

2. ARGYRITIS ARGENTINA.

Alba; abdomen subargenteum; alæ anticæ olivaceæ, guttis discalibus fasciaque perobliqua exteriore nigricantibus, vitta lata antica argentea apice truncata.

Noctua argentina, Fabr. Mant. Ins. ii. 162, 185; Ent. Syst. iii. 2, 80, 232. Bork. Eur. Schmett. iv. 796, 365. Hübn. Eur. Schmett. Noct. pl. 119, f. 553. Dup. Hist. Nat. Lép. Fr. vii. 442, pl. 127, f. 5. Frey. Beitr. iv. pl. 298.

Argyritis argentea, Hübn. Verz. Schmett. 247, 2454.

Cucullia argentina, Treit. Schmett. v. 98, 6. Meig. Syst. Besch. iii. 201, 15, pl. 112, f. 9. Boisd. Ind. Méth. 144, 1238. Eversm. Faun. Volg.-Ural. 298. Herr.-Schæff. Schmett. Eur. ii. 318, 416. Guen. Noct. ii. 150, 893.

South Russia.

a, b. Europe. From M. Becker's collection.

3. ARGYRITIS MAGNIFICA.

Alba; caput, palpi apice, thorax anticus et cristarum apices olivaceo-viridia; alæ anticæ argenteæ, costa macula basali fasciisque duabus postice connexis guttisque marginalibus olivaceo-viridibus, albo ex parte interlineatis.

Cucullia scopula, *Fischer de Waldheim, Bull. Soc. Imp. Nat. Mosc.* 1839, 1, 115, pl. 4, f. 1.

Noctua magnifica, *Frey, Beitr.* iv. pl. 304.

Cucullia magnifica, *Eversm. Faun. Volg-Ural.* 297. *Boisd. Ind. Méth.* 153, 1236. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 430, pl. 38. *Herr.-Schæff. Schmett. Eur. Noct.* ii. 308, 384, pl. 38, f. 191. *Guen. Noct.* ii. 151, 894.

South Russia.

a. Europe. From M. Becker's collection.

4. ARGYRITIS ARTEMISIÆ.

Alba; alæ anticæ virides fasciis obliquis interruptis argenteis; posticæ cinereo marginatæ.

———, *Engr. Pap. d'Eur.* 360, a—h.

Noctua Artemisiæ, *Wien. Verz.* 312, 9. *Fabr. Mant. Ins.* ii. 162, 180; *Ent. Syst.* iii. 2, 78, 227. *Knoch, Beitr.* i. 45, pl. 3, f. 1. *Bork. Eur. Schmett.* iv. 287, 121. *Hübner. Eur. Schmett. Noct.* pl. 53, f. 259. *Dup. Hist. Nat. Lép. Fr.* vii. 439, pl. 127, f. 4. *Frey. Beitr.* iv. pl. 322.

Phalæna-Noctua Artemisia, *Cram. Pap. Exot.* iv. 223, pl. 396, f. G. *Gmel. ed. Syst. Nat.* i. 5, 2556, 1109.

Noctua argentea, *Fabr. Sp. Ins.* ii. App. 507. *Knoch, Beitr.* i. 45, pl. 3, f. 2. *Esp. Schmett.* iv. pl. 109, f. 6—9.

Phalæna-Noctua argentea, *Cram. Pap. Exot.* iv. 242, pl. 400.

Phalæna argentea, *Herbst, Fuessl. Arch.* i. View. 78.

Cucullia Artemisiæ, *Treit. Schmett.* v. 95, 5. *Meig. Handb.* 177, 77, pl. 13, f. 5; *Syst. Besch.* iii. 201, 14, pl. 112, f. 8. *Steph. Ill. Brit. Ent. Haust.* iii. 91. *Boisd. Ind. Méth.* 153, 1235. *Herr.-Schæff. Schmett. Eur.* ii. 318, 417. *Guen. Noct.* ii. 151, 895.

Argyritis Artemisiæ, *Hübner. Verz. Schmett.* 247, 2453.

a. England?

b—f. Europe. From M. Becker's collection.

g. Europe. From Mr. Milne's collection.

h. Germany.

South America.

5. ARGYRITIS ARGYRINA.

Alba; thorax cinereo conspersus; alæ anticæ angustæ lanceolatæ integræ vitta lata antica, linea submarginali fasciæque lata postica argenteis; posticæ opalino albæ, margine nigricante.

Cucullia argyrina, Guen. Noct. ii. 150, 892.

Monte Video.

Africa.

6. ARGYRITIS FILIA.

Rufo-testacea; abdomen album; alæ anticæ rubiginosæ, apud marginem anteriorem testaceæ? disco argenteæ, striga basali plagaque apud angulum anteriorem albis; posticæ albæ cinereo latissime marginatæ.

Phalæna-Noctua Filia, Cram. Pap. Exot. iii. 128, pl. 264, f. D.

Argyritis Filia, Hübn. Verz. Schmett. 247, 2455.

Cape.

Genus 15. CRAMBODES.

Corpus gracile. Proboscis brevis. Palpi porrecti, graciles, subnudi, caput longe superantes; articulus 3us conicus, 2i quadrante non longior. Antennæ serratæ, subciliatæ. Abdomen alas posticas vix superans. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ anticæ sat angustæ, apud costam rectæ, apice rotundatæ, margine exteriore mediocriter obliquo vix denticulato.

Crambodes, Guen. Noct. ii. 152.

Male. Body slender. Proboscis short. Palpi porrect, slender, almost bare, extending much beyond the head; third joint conical, not more than one-fourth of the length of the second. Antennæ serrated, minutely ciliated. Abdomen hardly extending beyond the hind wings. Legs slender; hind tibiæ with four long spurs. Fore wings rather narrow, straight in front, rounded at the tips, moderately oblique and hardly denticulated along the exterior border.

1. CRAMBODES TALIDIFORMIS.

Mas. *Pallidissime cervina*; *alæ anticæ fascia media diffusa costaque fuscis, strigis interioribus lanceolatis, linea media e punctis guttisque marginalibus nigris, reniformi transversa angusta nigricante marginata*; *posticæ albidæ, guttis marginalibus fuscis.*

Crambodes Talidiformis, *Guen. Noct.* ii. 152, 896.

North and South America.

a. United States. Presented by E. Doubleday, Esq.

Genus 16. EPIMECIA.

Corpus gracile. Proboscis brevis. Palpi validi, porrecti, pilosi, caput sat superantes; articulus 3us longi-conicus, 2i trientis non longior. Antennæ simplices, graciles, corporis dimidio longiores. Abdomen alas posticas perpaullo superans. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ anticæ sat angustæ, apud costam rectæ, apice subrotundatæ, margine exteriori sat obliquo.

Epimecia, *Guen. Ann. Soc. Ent. Fr.* viii. 514; *Noct.* ii. 153.

Cleophana, p., *Boisd.*

Caradrina, p., *Treit.*

Body slender. Proboscis short. Palpi stout, porrect, pilose, extending some distance beyond the head; third joint elongate-conical, not more than one-third of the length of the second. Antennæ simple, slender, rather more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs slender; hind tibiæ with four long spurs. Fore wings rather narrow, straight in front, somewhat rounded at the tips, rather oblique along the exterior border.

1. EPIMECIA USTULATA.

Pallide cinerascens; *abdomen albido-canescens*; *alæ anticæ disco ex parte costa margineque exteriori obscurioribus, nigro conspersæ, guttis duabus discalibus albis*; *posticæ albido-canescentes.*

Cleophana ustulata, *Boisd. Ramb. Grasl. Chem.* pl. 22; *Ind. Meth.* 151, 1212.

Epimecia ustulata, *Guen. Ind.* 246; *Noct.* ii. 154, 897. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 395, pl. 35.

Noctua ustulata, *Geyer, Schmett.* f. 857. *Frey. Beitr.* ii. pl. 148, f. 1.

Caradrina lurida, *Treit. Schmett. Suppl.* x. 81.

Epimecia lurida, *Herr.-Schæff. Schmett. Eur.* ii. 239, 175, pl. 86, f. 442.

South France. Hungary.

a, b. Europe. From M. Becker's collection.

Genus 17. OMIA.

Corpus pilosum, vix robustum. Proboscis longiuscula. Palpi porrecti, pilosi, caput paullo superantes; articulus 3us minimus. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas paullo superans. Pedes mediocriter validi; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice rotundatæ, margine exteriore integro mediocriter obliquo.

Omia et Apaustis, Hübn. Verz. Schmett. 244, 258.

Omia, Guen. Noct. ii. 154.

Cleophana, Treit.; Boisd.

Cleophana et Heliodes, Guen. Ess. Dup.

Heliothisa, p., Meig. Syst. Besch. iii. 228.

Body pilose, moderately stout. Proboscis rather long. Palpi pilose, porrect, extending a little beyond the head; third joint very minute. Antennæ simple, much more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Fore wings moderately broad, straight in front, rounded at the tips, entire and moderately oblique along the exterior border.

1. OMIA RUPICOLA.

Nigro-fusca, pilis albis varia; alæ anticæ fasciis angulosis nigris, orbiculari et reniformi plus minusve albis, ciliis albo strigatis; posticæ albæ, margine lato nigro-fusco.

Noctua rupicola, Wien. Verz. 90, 9. *Esp. Schmett.* iv. pl. 192, f. 1. *Hübn. Beitr.* pl. 2, f. . *Dup. Hist. Nat. Lép. Fr.* vii. 205, pl. 118, f. F. *Frey. Beitr.* iv. pl. 330.

Cleophana rupicola, Ochs. Schmett. 77, 7. *Treit. Schmett.* v. 210, 6.

Anarta rupicola, *Boisd. Ind. Méth.* 162, 1299. *Herr.-Schæff. Schmett. Eur. Noct.* ii. pl. 42, f. 213, 214.

Noctua palliata, *Fabr. Mant.* 73.

Noctua pallium, *Bork. Eur. Schmett.* iv. 92, 36.

Noctua heliophila, *Hübner. Eur. Schmett. Noct.* pl. 64, f. 317.

Apaustis heliophila, *Hübner. Verz. Schmett.* 258, 2543.

Heliothisa rupicola, *Meig. Syst. Besch.* iii. 228, 10, pl. 119, f. 5, a, b.

Hungary.

a. Lapland. Presented by J. R. Crowe, Esq.

b. Europe.

2. OMIA CYMBALARIÆ.

Cinerea; *thorax fusco fasciatus*; *alæ anticæ fusæ, fasciis duabus incompletis canis, venis nigris, ciliis albo strigatis*; *posticæ nigricantes, ciliis albis.*

Noctua Cymbalariæ, *Hübner. Eur. Schmett. Noct.* pl. 92, f. 432.

Dup. Hist. Nat. Lép. Fr. vii. 267, pl. 116, f. 7.

Cleophana Cymbalariæ, *Treit. Schmett.* v. 272, 13. *Boisd. Ind. Méth.* 151, 1214.

Omia Cymbalariæ, *Hübner. Verz. Schmett.* 244, 2433. *Guen. Noct.* ii. 156, 899.

Heliothisa Cymbalariæ, *Meig. Syst. Besch.* iii. 229, 11, pl. 120, f. 6.

Valais, South France.

a. Pyrenees. Presented by the Entomological Club.

3. OMIA CYCLOPEA.

Alæ anticæ cinereo-fusæ, ad basin obscuriores, in medio pallidiores, strigis duabus transversis subsinuatis albicantibus anguste nigro-cinctis, macula reniformi magna fere triangulari albo-cincta, orbiculari nulla, fimbria variegata; *posticæ nigro-fusæ intus obscuriores*; *prothorax quadri mucronatus.*

Cleophanana cyclopea, *Graslin, Ann. Soc. Ent. Fr.* xiv. 570, pl. 17, B, f. 7. *Herr.-Schæff. Eur. Schmett.* ii. 297, 356. *Dup. Hist. Nat. Lép. Fr. Suppl.* iii. 376, pl. 34, f. 5. *Boisd. Ind. Méth.* 151, 1213.

Omia cyclopea, *Guen. Noct.* ii. 156, 900.

South Spain. Corsica.

Genus 18. CLEOPHANA.

Corpus robustum, pilosum. Proboscis brevis. Palpi oblique ascendentes; articulus 3us gracilis, cylindricus, 2i triente non longior. Abdomen alas posticas plus minusve superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ mediocriter latæ, apud costam rectæ, apice angulatæ, margine exteriori subconvexo mediocriter obliquo.

Cleophana, p., *Boisd.*; *Treit.*; *Guen.*; *Dup.*; *Herr.-Schæff.*

Omia, p., *Hübner. Verz. Schmett.* 244.

Xylina, p., *Meig.*

Body stout, pilose. Proboscis short. Palpi obliquely ascending; third joint slender, cylindrical, not more than one-third of the length of the second. Antennæ more than half the length of the body. Abdomen extending more or less beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings moderately broad, straight in front, angular at the tips, slightly convex and moderately oblique along the exterior border. *Male*.—Antennæ minutely serrated.

1. CLEOPHANA YVANII.

Alæ anticæ cinereo fusco fulvoque variæ, lineolis duabus nigro venosis angulatisque transversis; posticæ albido-flavæ, margine fusco.

Xylina Yvanii, *Donzel, MSS. Duponch. Ann. Soc. Ent. Fr.* ii. 257, pl. 9; *Hist. Nat. Lép. Fr. Suppl.* iii. 389, pl. 35, f. 3.

Cleophana Yvanii, *Boisd. Ind. Méth.* 151, 1215. *Guen. Noct.* ii. 158, 901. *Herr.-Schæff. Eur. Schmett.* ii. 297, 357.

Noctua Yvanii, *Geyer, Schmett.* f. 838.

Digne,

2. CLEOPHANA ANARRHINI.

Fuscescens; thorax fasciis angustis; abdominisque segmenta marginibus posticis albidis; alæ anticæ ocello discali strigisque nonnullis transversis albis, lineis duabus transversis undulatis duplicatis strigisque exterioribus lanceolatis nigris, ciliis inter venas albis; posticæ nigro-fusæ, disco ex parte albido, ciliis albidis, fusco variis.

Cleophana Anarrhini, *Boisd. Ind. Méth.* 151, 1217. *Dup. Hist. Nat. Léop. Fr. Suppl.* iii. 387, pl. 35, f. 2. *Herr.-Schæff. Schmett. Eur.* ii. 98, 36, pl. 32, f. 157. *Guen. Noct.* ii. 158, 902.

Provence.

a, b. Europe. From M. Becker's collection.

3. CLEOPHANA DEJEANII.

Albida, fusco varia; alæ anticæ nigro lineatæ, fasciis duabus aureo-fuscis, lineis duabus intermediis flexuosis lineisque marginalibus albis, ciliis alternis fuscis; posticæ fuscæ.

Noctua Dejeanii, *Dup. Hist. Nat. Léop. Fr.* vii. 238, pl. 115, f. 2.

Cleophana Dejeanii, *Dup. Suppl.* iii. 386, pl. 35, f. 1. *Boisd. Ind. Méth.* 151, 1216. *Herr.-Schæff. Eur. Schmett.* ii. 296, 355, pl. 32, f. 156. *Guen. Noct.* ii. 159, 903.

Xylina Dejeanii, *Boisd. Ind.* 88. *Meig. Syst. Besch.* iii. 193, pl. 111, f. 6.

South France. Spain.

a—d Europe. From M. Becker's collection.

4. CLEOPHANA PENICILLATA.

Cinerea, fusco varia; alæ anticæ strigis ambabus percurrentibus niveis utrinque acute nigro-cinctis.

Cleophana Baetica, *Ramb. Faun. Andal.* ii. pl. 184.

Cleophana penicillata, *Boisd. Ind. Méth.* 151, 1218. *Herr.-Schæff. Eur. Schmett.* ii. 298, 360. *Guen. Noct.* ii. 159, 904,

Cleophana Chænorrhini? *Dup. Hist. Nat. Léop. Fr. Suppl.* 379, pl. 34, f. 6.

Sardinia. Andalusia.

5. CLEOPHANA SERRATA.

Alæ anticæ fusco cinereoque variæ, apice albo nigroque radiatæ, strigis duabus albidis approximatis transversis, maculis ordinariis nigris albido inductis.

Cleophana serrata, *Treit. Schmett. Suppl.* x. 121. *Feisthamel, Ann. Soc. Ent. Fr.* vi. 299, pl. 12, f. 2. *Herr.-Schæff. Eur. Schmett.* ii. 298, 361. *Guen. Noct.* ii. 160, 905.

Noctua serrata, *Frey. Beitr.* iii. pl. 256, f. 1.

South Spain. Sicily.

6. CLEOPHANA ARCTATA.

Fusco-cinerea ; caput, thoracis margo anticus vittæque duæ obliquæ pallide cinerascens ; abdomen cinerascens linea interrupta nigra ; alæ anticæ apud marginem exteriorem albæ, lineis transversis interruptis interioribus strigisque exterioribus nigris ; posticæ fuscæ, basi albidæ, ciliis albis fusco guttatis.

Noctua serrata, Geyer, Schmett. f. 871.

Cleophana serrata, Guen. Ind. 246. Boisd. Ind. Méth. 152, 1221.

Feisth. Ann. Soc. Ent. Fr. 1837, vi. 299, pl. 12, f. 2. Dup.

Hist. Nat. Léop. Fr. Suppl. iii. 426, pl. 37.

Cleophana arctata, Guen. Noct. ii. 161, 906.

South Spain.

7. CLEOPHANA ANTIRRHINI.

Cervino-fuscescens ; thorax fasciis albidis ; abdominis segmenta albo marginata ; alæ anticæ cinereo variæ, fasciis duabus angulatis nigricantibus albedo marginatis, reniformi intermedia subrotunda albedo marginata, fascia interrupta albida strigisque nigris exterioribus, ciliis albo strigatis ; posticæ fuscæ, fascia interrupta sordide albida, ciliis albis basi cervino notatis.

———, Engr. Pap. d'Eur. 347, e, f.

Noctua Antirrhini, Hübn. Eur. Schmett. Noct. pl. 52, f. 253.

Dup. Hist. Nat. Léop. Fr. vii. 264, pl. 110, f. 6. Frey. Beitr. ii. pl. 172.

Cleophana Antirrhini, Treit. Schmett. v. 75, 31 ; Suppl. 120. Boisd.

Ind. Méth. 151, 1219. Herr.-Schæff. Eur. Schmett. ii. 298, 362. Guen. Noct. ii. 161, 907.

Omia Antirrhinii, Hübn. Verz. Schmett. 244, 2434.

Xylina Antirrhinii, Meig. Syst. Besch. iii. 192, 21, pl. 111, f. 2.

South France. Austria. Hungary.

a, b. Europe. From M. Becker's collection.

Genus 19. CALOPHASIA.

Corpus robustum. Proboscis mediocriter longa. Palpi sub-
 erecti; articulus 3us conicus, 2i quadrante brevior. Antennæ sim-
 plices, corporis dimidio longiores. Abdomen alas posticas paullo
 superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ an-
 ticæ apud costam rectæ, apice rectangulatæ, margine exteriori sub-
 obliquo.

Calophasia, *Steph. Ill. Brit. Ent. Haust.* ii. 61. *Guen. Noct.* ii.
 162.

Omia, p., *Hüb. Verz. Schmett.*

Taracha, *Hüb. Verz. Schmett.* 261. *Herr.-Schæff.*

Body stout. Proboscis moderately long. Palpi ascending,
 almost vertical; third joint conical, less than one-fourth of the
 length of the second. Antennæ simple, more than half the length
 of the body. Abdomen extending a little beyond the hind wings.
 Legs stout; hind tibiæ with four long spurs. Fore wings straight
 in front, rectangular at the tips, slightly oblique along the exterior
 border.

A. Alæ anticæ strigatæ.

A. Alæ posticæ cinerascens.

A. Orbicularis et reniformis conspicuæ. *Linariæ, Wien. Verz.*

B. Orbicularis et reniformis indistinctæ. - *platyptera, Esp.*

B. Alæ posticæ nigricantes. - - *Orontii, Herr.-Schæff.*

C. Alæ posticæ albæ. - - - - *olbiena, Guen.*

B. Alæ anticæ non strigatæ. - - - - *opalina, Esp.*

1. CALOPHASIA LINARIÆ.

*Canescens; thorax fasciis fuscescentibus; abdomen cinerascens;
 alæ anticæ fasciis duabus diffusis connexis nigro lineatis
 fuscescentibus, strigis exterioribus nigris, orbiculari oblonga
 angusta, reniformi alba, ciliis fuscis albo strigatis; posticæ
 cinerascens, margine fusco, ciliis albis.*

———, *Réaum. Ins.* i. 356, pl. 37. *Deg. Ins.* ii. 430, pl. 8.
Engr. Pap. d'Eur. 347, a—d.

Noctua *Linariæ, Wien. Verz.* 73, 6. *Fabr. Mant. Ins.* ii. 167, 219.
Ent. Syst. iii. 2, 92, 274. *Esp. Schmett.* iv. pl. 121, f. 4, 5.
Bork. Eur. Schmett. iv. 314, 132. *Hüb. Eur. Schmett. Noct.*
 pl. 52, f. 252. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 110, f. 6.
Frey. Beitr. ii. 171.

Phalæna-Noctua Linariæ, *Gmel. ed. Syst. Nat.* i. 5, 2564, 1132.

Omia Linariæ, *Hübner. Verz. Schmett.* 245, 2435.

Cleophana Linariæ, *Treit. Schmett.* v. 77, 32. *Boisd. Ind. Méth.* 152, 1220. *Herr.-Schæff.-Eur. Schmett.* ii. 298, 359.

Xylina Linariæ, *Meig. Handb.* 176, 73; *Syst. Besch.* iii. 191, 20, pl. 111, f. 4.

Calophasia Linariæ, *Steph. Ill. Brit. Ent. Haust.* ii. 94. *Guen. Noct.* ii. 163, 908.

a. England. From Mr. Stephens' collection.

b, c. England.

d, e. Europe. From M. Becker's collection.

f—h. Europe.

2. CALOPHASIA? ORONTII.

Cana; *thorax lineis transversis anticis vittaque nigricantibus*; *abdomen nigricans, pallido marginatum*; *alæ anticæ glaucocinereæ, basi lineisque duabus transversis exterioribus albidis, fascia intermedia alba, guttis marginalibus nigris*; *posticæ nigricantes, fascia margineque pallidis.*

Cleophana Orontii, *Herr.-Schæff. Schmett. Eur.* ii. pl. 36, f. 180, 181.

Calophasia? Orontii, *Guen. Noct.* ii. 164, 909.

3. CALOPHASIA PLATYPTERA.

Cana; *thorax fascia antica biarcuata nigra*; *abdomen cinereum*; *alæ anticæ vitta diffusa arcuata cinereo-fusca, lineis nonnullis strigisque lanceolatis marginalibus nigris*; *posticæ cinerascetes, margine fuscescete.*

———, *Engr. Pap. d'Eur.* 490.

Noctua platyptera, *Esp. Schmett.* iv. 396, pl. 130, f. 5. *Bork. Eur. Schmett.* iv. 133. *Dup. Hist. Nat. Lép. Fr.* vii. 337, pl. 120.

Noctua canterius, *Vill. Ent.* pl. 5, f. 11.

Noctua Tenera, *Hübner. Eur. Schmett. Noct.* f. 254.

Omia Tenera, *Hübner. Verz. Schmett.* 245, 2437.

Cleophana platyptera, *Treit. Schmett.* v. 71. *Boisd. Ind. Méth.* 152, 1222. *Herr.-Schæff. Eur. Schmett.* ii. 299, 363, pl. 32, f. 158.

Calophasia platyptera, *Guen. Noct.* ii. 164, 910.

South Europe.

a. Europe. From M. Becker's collection.

4. CALOPHASIA OLBIEA.

Cinerea; thoracis discus nigricans; abdomen fuscescens; alæ anticae nigro lineatae, fasciis duabus fusciscentibus; posticae albæ, fusco marginatae.

Cleophana olbiena, Dup. Hist. Nat. Léop. Fr. Suppl. iv. 230, pl. 70, f. 3. Herr.-Schæff. Schmett. Eur. ii. pl. , f. 386.

Calophasia olbiena, Guen. Noct. ii. 164, 911.

Hyères, South France.

5. CALOPHASIA OPALINA.

Candida; thorax postice nigro maculatus; alæ anticae fascia repanda glauca, guttis costalibus maculisque marginalibus nigris; posticae margine glauco-fusco.

Noctua opalina, Esp. Schmett. iv. pl. 182, f. 3. Hübn. Eur. Schmett. Noct. pl. 81, f. 376; f. 808, 809. Frey. Beitr. pl. 79. Dup. Hist. Nat. Léop. Fr. vii. 246, pl. 115, f. 3.

Xylina opalina, Treit. Schmett. v. 80, 33.

Heliothisa opalina, Meig. Syst. Besch. iii. 227, 8, pl. 114, f. 7; pl. 121, f. 2.

Cleophana opalina, Boisd. Ind. Méth 152, 1223.

Taracha opalina, Hübn. Verz. Schmett. 261, 2567. Herr.-Schæff. Eur. Schmett. ii. 295, 353.

Calophasia opalina, Guen. Noct. ii. 165, 912.

Noctua casta, Scriba, Ins. 212, pl. 17.

South France,

a—d. Europe. From M. Becker's collection.

Asia

6. CALOPHASIA NOTABILIS.

Alba; alæ anticae maculis costalibus fasciaque lata maculisque marginalibus cinereis nigro notatis, ciliis cinereo maculatis; posticae opalinæ, fusciscente interrupte marginatae.

White. Antennæ black. Fore wings with gray black-marked spots along the costa, and with a broad irregular exterior gray black-marked band, which is hardly separate from a row of marginal spots of the same hue; ciliæ with gray spots. Hind wings somewhat iridescent, with interrupted pale brown borders. Length of the body 6 lines; of the wings 14 lines.

a, b. Pubjaub. Presented by Gen. Hearsay.

Genus 20. SIGA.

Corpus sat validum. Antennæ longæ, graciles, simplices, corporis dimidio longiores. Proboscis longa. Palpi breves. *Mas.*—Abdomen alas posticas paullo superans. Alæ anticæ lanceolatæ, angustæ. *Fæm.*—Alæ anticæ latiores, apice obtusiores; posticæ abdomen fere superantes.

Siga, *Hübner. Verz. Schmett.* 195.

Body moderately stout. Antennæ of both sexes long, slender, bare, more than half the length of the body. Proboscis long. Palpi short. *Male.*—Abdomen extending a little beyond the hind wings. Fore wings lanceolate, narrow. *Female.*—Abdomen hardly extending so far as the hind wings. Fore wings broader, more obtuse at the tips.

This genus may belong to another family of *Noctuities*.

1. SIGA LIRIS.

Viridis; alæ venis nigris, plaga discali vitrea marginata; anticæ maris striga subcostali vitrea annulum nigrum includente, fæm. maculis duabus vitreis, una trigona, altera quadrata.

Phalænæ Liris, Cram. Pap. Exot. i. 98, pl. 63, f. F.; iii. 122, pl. 262, f. E.

Siga Liris, *Hübner. Verz. Schmett. (Phalænæ Fodicantes Terebines Graciles)* 195, 2012.

West Indies.

Fam. 10. HELIOTHIDÆ.

Heliothidi, Boisd. Guen. Ann. Soc. Ent. Fr. x. 53.

Heliothidæ, Guen. Noct. ii. 166.

Diurnæ. Statura mediocris aut parva. Palpi validi, breves aut breviusculi. Antennæ simplices, rarissime serratæ aut pectinatæ. Thorax validus, sæpe villosus. Abdomen læve. Pedes sæpissime spinis aut unguibus armati. Alæ sæpissime nigro notatæ; posticæ sæpe pallidæ, margine obscuro.

Flight diurnal. Size moderate or small. Palpi stout, short or rather short, generally porrect; third joint conical, not elongated.

Antennæ simple, very rarely serrated or pectinated in the male. Thorax stout, often villose. Abdomen smooth. Legs often armed with spines or hooks. Wings most often marked with black; fore wings moderately broad; hind wings generally pale, with a dark border.

A. Corpus gracile.

A. Alæ posticæ non marginatæ.

a. Alæ anticæ latiusculæ.

a. Alæ anticæ apice angulatæ. - - - 1. *ORIA*, *Geyer*.

b. Alæ anticæ rotundatæ. - - - 8. *TAMILIA*, *Guen*.

B. Alæ anticæ sat angustæ. - - - 3. *ALARIA*, *Westw*.

B. Alæ posticæ marginatæ. - - - 10. *ANTHÆCIA*, *Boisd*.

B. Corpus robustum.

A. Alæ anticæ apice rotundatæ.

A. Thorax cristatus. - - - 2. *CHARICLEA*, *Steph*.

B. Thorax non cristatus.

a. Palpi ascendentes.

i. Thorax dense pilosus. - - - 4. *EUTERPIA*, *Guen*.

ii. Thorax non dense pilosus. - - - 6. *LEPIPOLYS*, *Guen*.

b. Palpi porrecti.

i. Alæ anticæ pallidiores. - - - 9. *HELIOTHIS*, *Och*.

ii. Alæ anticæ obscuriores. - - - 12. *ANARTA*, *Ochs*.

B. Alæ anticæ apice angulatæ.

A. Statura mediocris.

a. Alæ anticæ stramineæ. - - - 5. *STEPHANIA*, *Guen*.

b. Alæ anticæ viridescentes. - - - 7. *CHLORIDEA*, *Westw*.

B. Statura parva.

a. Palpi longiusculi. - - - 11. *JANTHINEA*, *Guen*.

b. Palpi breves. - - - 13. *CYREBIA*, *Guen*.

c. Palpi brevissimi. - - - 14. *PANEMERIA*, *Hübner*.

Genus 1. ORIA.

Corpus gracile. Proboscis mediocriter longa. Palpi sat graciles, vix ascendentes; articulus 3us conicus, 2i quadrante brevior. Antennæ corporis dimidio paullo longiores. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ anticæ latiusculæ, apud costam reectæ, apice angulatæ, margine exteriore perparum obliquo. *Mas*.—Antennæ subciliatæ. Abdomen alas posticas superans. *Fæm*.—Abdomen alas posticas non superans.

Oria, *Geyer*. *Guen. Noct.* ii. 166.

Body slender. Proboscis moderately long. Palpi rather slender, hardly ascending; third joint conical, less than one-fourth of the length of the second. Antennæ a little more than half the length of the body. Legs slender; hind tibiæ with long spurs. Fore wings rather broad, straight in front, angular at the tips, very slightly oblique along the exterior border. *Male*.—Antennæ slightly ciliated. Abdomen extending beyond the hind wings. *Female*.—Abdomen not extending beyond the hind wings.

1. ORIA SANGUINEA.

Mas. *Albido-flavescens; alæ anticæ rufescentes nigro venosæ flavido variæ, fasciis duabus obliquis maculaque intermedia discali nigricantibus; posticæ nigricantes, ciliis pallido marginatis.*

Oria sanguinea (Noctua genuina, *Heliophila pallida*), *Geyer, Samml. Exot. Schmett.* iv. 9, 307, f. 613, 614. *Guen. Noct.* ii. 167, 913.

Georgia.

a, b. North America. From Mr. Milne's collection.

c—e. North America.

Genus 2. CHARICLEA.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, porrecti, pilosi, caput paullo superantes; articulus 3us conicus, 2i quadrante non longior. Antennæ simplices, corporis dimidio multo longiores. Thorax postice cristatus. Abdomen alas posticas paullo superans. Pedes mediocriter validi; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice rotundatæ, margine exteriori mediocriter obliquo apud medium subconvexo.

Chariclea, *Steph.; Boisd.; Guen. Ann. Soc. Ent. Fr.* viii. 521; *Noct.* ii.

Xylina, p., *Ochs.; Treits.*

Periphanea, p., *Hübner. Verz. Schmett.* 247.

Body stout. Proboscis moderately long. Palpi stout, porrect, pilose, extending a little beyond the head; third joint conical, not more than one-fourth of the length of the second. Antennæ simple, much more than half the length of the body. Thorax crested hindward. Abdomen extending for one-fourth of its length beyond the

hind wings. Legs moderately stout; hind tibiæ with four long spurs. Fore wings moderately broad, straight along the costa, rounded at the tips; exterior border moderately oblique, slightly convex in the middle.

1. CHARICLEA DELPHINII.

Testacea; abdomen lateribus purpurascentibus nigro guttatis; alæ anticæ saturate purpureæ, fasciis undulatis pallidioribus et nigris, ciliis testaceis; posticæ albidæ, margine lato nigricante.

———, *Merian, Ins. Eur.* i. pl. 40. *Roës. Ins.* i. pl. 12. *Wilk. Pap.* iii. pl. 1, a, 4. *Geoffr. Ins. Par.* ii. 164, 109. *Engr. Pap. d'Eur.* 538, a—g.

Noctua Delphinii, *Wien. Verz.* 87, 8. *Fabr. Sp. Ins.* 231, 111; *Mant. Ins.* ii. 167, 214; *Ent. Syst.* iii. 2, 90, 267. *Esp. Schmett.* iv. pl. 175, f. 1—4. *Bork. Eur. Schmett.* iv. 652, 279. *Hübner. Eur. Schmett. Noct.* pl. 42, f. 204; pl. 137, f. 622. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 110, f. 1. *Donov. Brit. Ins.* x. pl. 331. *Haw. Lep. Brit.* 261.

Phalæna-Noctua Delphinii, *Gmel. ed. Syst. Nat.* i. 5, 2576, 188.

Xylina Delphinii, *Treit. Schmett.* v. 82, 34.

Heliothisa Delphinii, *Meig. Handb.* 177, 76; *Syst. Besch.* iii. 232, 18, pl. 120, f. 18.

Chariclea Delphinii, *Steph. Ill. Brit. Ent. Haust.* iii. 92. *Curt. Brit. Ent.* pl. 76. *Boisd. Ind. Meth.* 152, 1225. *Guen. Noct.* ii. 168, 914.

Periphanea Delphinii, *Hübner. Verz. Schmett.* 247, 2456.

a, b. England. From Mr. Stephens' collection.

c. England.

d. Paris. Presented by Dr. Boisduval.

e—h. Europe. From M. Becker's collection.

i. Europe.

Asia.

2. CHARICLEA PRAZANOFFZKYI.

Straminea; thorax fascia subcervina; abdomen testaceo-albidum; alæ anticæ fasciis duabus obliquis roseis, interiore diffusa, exteriore subduplicata; posticæ subcinereæ, ciliis basique albidis.

Chariclea Prazanoffzkyi, *Guen. Noct.* ii. 169, 915.

Turkey in Asia.

3. CHARICLEA TAURICA.

Rosea ; abdomen cinerascens, lateribus roseis ; alæ anticæ albidæ, basi ciliisque roseis, margine exteriore purpureo, strigis basilibus saturate roseis, fascia media antice rosea purpureo varia, postice e lineis duabus lutescentibus ; posticæ cinereæ, basi pallidiores, ciliis roseis.

Chariclea Taurica, *Herr.-Schæff. Schmett. Eur.* ii. pl. 52, f. 263, 264. *Guen. Noct.* ii. 169, 916.

Crimea ?

4. CHARICLEA EVERSMANNII.

Albido-cana ; thorax roseus ; alæ anticæ roseæ, margine postico intus fusco extus puniceo, in posticis fusco.

Chariclea (Heliothis) Eversmanni, *Kolenati, Mel. Ent.* 102, pl. 18, f. 3. *Zeller, Ent. Zeit. Stett.* ix. 373.

Genus 3. ALARIA.

Corpus sat gracile. Proboscis mediocriter longa. Palpi porrecti, pilosi, caput paullo superantes ; articulus 3us minimus, 2i quadrante brevior. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas vix superans. Pedes sat graciles ; tibiæ posticæ calcaribus longis. Alæ anticæ sat angustæ, apud costam rectæ, apice angulatæ, margine exteriore sat obliquæ.

Alaria, *Westw. Nat. Libr.* xxxvii. *Exotic Moths*, 200.

Rhodophora, *Guen. Noct.* ii. 170.

Body rather slender. Proboscis moderately long. Paipi porrect, pilose, extending a little beyond the head ; third joint very small, less than one-fourth of the length of the second. Antennæ simple, much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs rather slender ; hind tibiæ with four long spurs. Fore wings rather narrow, straight in front, angular at the tips, rather oblique along the exterior border.

1. ALARIA GAURÆ.

Alba; caput et thorax flavo varia; alæ anticæ plus dimidio basali plerumque flavescentes, vitta basali fasciaque obliqua post-media roseis, apices versus pallide roseæ; posticæ albæ, margine pallide roseo.

Phalæna Gauræ, Abbot & Smith, *Nat. Hist. Lep. Ins. Georg.* ii. 197, pl. 99.

Alaria Gauræ, *Westw. Nat. Libr.* xxxvii. 200, pl. 24, f. 4.

Porphyrinia matutina (Noctua semigeometra, Antophila blanda), *Hübner. Samml. Exot. Schmett.* iii. 35, 279, f. 557, 558.

a. East Florida. Presented by E. Doubleday, Esq.

b—d. Georgia. From Mr. Milne's collection.

e, f. Georgia.

2. ALARIA FLORIDA.

Flavescens; caput roseum; alæ anticæ roseæ, apud marginem anteriorem flavescentes; posticæ testaceo-albidæ.

Rhodophora Florida, *Guen. Noct.* ii. 171, 918.

a, b. New York. Presented by E. Doubleday, Esq.

c. Orilla, West Canada. From Mr. Bush's collection.

Genus 4. EUTERPIA.

Corpus robustum, non cristatum. Proboscis mediocriter longa. Palpi breves, subascendentes; articulus 3us conicus, 2i quadrante non longior. Antennæ simplices, corporis dimidio longiores. Pedes mediocriter robusti; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice rotundatæ, margine exteriori subconvexo subobliquo.

Euterpia, *Guen. Ann. Soc. Ent. Fr.* 1850; *Noct.* ii. 171.

Cleophana, p., *Boisd.*; *Duponch.*

Body stout, not crested. Proboscis moderately long. Palpi short, slightly ascending; third joint conical, not more than one-fourth of the length of the second. Antennæ simple, more than half the length of the body. Legs moderately stout; hind tibiæ with four long spurs. Fore wings moderately broad, straight in front, rounded at the tips, slightly convex and slightly oblique along the exterior border.

1. EUTERPIA LAUDETII.

Alba; alæ anticæ fasciis duabus repandis roseo-fuscis nigro et glaucescente variis, exteriore duplicata lunulam glauco-nigram includente, annulo intermedio nigricante; posticæ fusco marginatæ.

Cleophana Laudeti, *Boisd. Ind. Méth.* 152, 1224, *Dup. Hist. Nat. Lép. Fr. Suppl.* iv. 234, pl. 70. *Herr.-Schæff. Schmett. Eur.* ii. pl. 45, f. 228, 229.

Euterpia Laudeti, *Guen. Noct.* ii. 172, 919.

Alps of the Valais. South Russia.

a, b. Europe. From M. Becker's collection.

Genus 5. STEPHANIA.

Corpus sat validum. Proboscis mediocriter longa. Palpi porrecti, caput perpaullo superantes; articulus 3us minutus, conicus. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas paullo superans. Alæ anticæ mediocriter latæ, apud costam rectæ, apice angulatæ, margine exteriore vix obliquo.

Xanthia, p., *Boisd.*; *Duponch.*

Stephania, *Guen. Noct.* ii. 172.

Mycteroplus, *Herr.-Schæff. Schmett. Eur.* ii. 242.

Body moderately stout. Proboscis moderately long. Palpi porrect, extending very little beyond the head; third joint minute, conical. Antennæ simple, more than half the length of the body. Abdomen extending a little beyond the hind wings. Fore wings moderately broad, straight in front, angular at the tips, hardly oblique along the exterior border.

1. STEPHANIA PUNICEAGO.

Pallide straminea; abdomen stramineo-albidum; alæ anticæ fasciis duabus saturatoribus albido marginatis, maculis indistinctis; posticæ albæ.

Xanthia puniceago, *Boisd. Ind. Méth.* 146, 1185. *Dup. Hist. Nat. Lép. Fr. Suppl.* iv. 234, pl. 70.

Mycteroplus puniceago, *Herr.-Schæff. Schmett. Eur.* ii. 242, 180, pl. 9, f. 43.

Stephania puniceago, *Guen. Noct.* ii. 173, 920.

South Russia.

Genus 6. LEPIPOLYS.

Corpus sat validum. Proboscis mediocriter longa. Palpi breves, subascendentes; articulus 3us minutus, 2i quadrante multo brevior. Antennæ corporis dimidio longiores. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ anticæ sat angustæ, apud costam rectæ, apice rotundatæ, margine exteriori subconvexo mediocriter obliquo. *Mas.*—Antennæ vix ciliatæ. Abdomen alas posticas triente superans.

Lepipolys, *Guen. Noct.* ii. 173.

Body moderately stout. Proboscis moderately long. Palpi short, slightly ascending; third joint minute, much less than one-fourth of the length of the second. Antennæ more than half the length of the body. Legs slender; hind tibiæ with long spurs. Fore wings rather narrow, straight in front, rounded at the tips, slightly convex and moderately oblique along the exterior border. *Male.*—Antennæ very minutely ciliated. Abdomen extending for one-third of its length beyond the hind wings.

1. LEPIPOLYS PERSCRIPTA.

Cinerea; thorax nigro conspersus; alæ anticæ lineis duabus transversis undulatis lunulisque marginalibus nigris, linea submarginali angulosa albida, claviformi, orbiculari et reniformi magnis nigro ex parte marginatis; posticæ canescentes, margine cupreo-fuscescente.

Lepipolys perscripta, *Guen. Noct.* ii. 175, 921.

a—h. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

Genus 7. CHLORIDEA.

Corpus sat validum. Proboscis mediocriter longa. Palpi porrecti, sat graciles, caput superantes; articulus 3us lanceolatus, 2i triente non brevior. Antennæ simplices, corporis dimidio non longiores. Abdomen alas posticas paullo superans. Pedes sat graciles; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice subangulatæ, margine exteriori recto mediocriter obliquo.

Chloridea, *Westw. Nat. Libr.* xxxvii. *Exotic Moths*, 198.

Aspila, *Guen. Noct.* ii. 174.

Body moderately stout. Proboscis moderately long. Palpi porrect, rather slender, extending some distance beyond the head; third joint lanceolate, about one-third of the length of the second. Antennæ simple, about half the length of the body. Abdomen extending a little beyond the hind wings. Legs rather slender; hind tibiæ with long spurs. Fore wings moderately broad, straight in front, slightly angular at the tips, straight and moderately oblique along the exterior border.

Xanthia viridescens and *X. prasina* may belong to this genus.

1. CHLORIDEA RHEXIÆ.

Viridis; alæ anticæ fasciis obliquis et macularum marginibus saturatioribus; posticæ albæ, margine cupreo.

Phalæna Rhexiæ, Abbot & Smith, *Lep. Ins. Georg.* ii. 199, pl. 100.

Chloridea Rhexiæ, Westw. *Nat. Libr.* xxxvii. *Exot. Moths*, 198, pl. 24, f. 3.

Aspila Rhexiæ, Guen. *Noct.* ii. 175, 922.

a, b. East Florida. Presented by E. Doubleday, Esq.

c—e. Georgia. From Mr. Milne's collection.

f—h. Santarem. From Mr. Bates' collection.

i. St. Domingo. From Mr. Tweedie's collection.

2. CHLORIDEA VIRESCENS.

Viridis, subtus alba; palpi pedesque ex parte rosei; abdomen testaceum; alæ anticæ fasciis tribus saturatioribus, exteriore plus obliquo, costâ subrosea; posticæ albæ, margine exteriore fuscescente, interiore testaceo.

Noctua virescens, Fabr. *Ent. Syst.* iii. 280, 72. *Oliv. Enc. Méth.* vii. 269.

Aspila virescens, Guen. *Noct.* ii. 175, 923.

West Indies.

3. CHLORIDEA SUBFLEXA.

Alæ anticæ pallidissime flavescens-virides, apices versus magis attenuatæ, fasciis tribus olivaceo-viridi valde nebulosis, 3a apud medium flexa, maculis submarginalibus vagis obscuris, margine exteriore subconcavo; posticæ candidæ, opalinæ.

Aspila subflexa, Guen. *Noct.* ii. 175, 924.

North America.

Genus 8. TAMILA.

Corpus sat gracile. Proboscis mediocriter longa. Palpi porrecti, graciles, caput vix superantes; articulus 3us conicus, minimus, 2i quadrante brevior. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas non superans. Pedes sat graciles; tibiæ posticæ calcaribus longis. Alæ anticæ latiusculæ, apud costam rectæ, apice subrotundatæ, margine exteriori mediocriter obliquo.

Tamila, *Guen. Noct.* ii. 176.

Acontia, p., *Steph.*

Body rather slender. Proboscis moderately long. Palpi porrect, slender, hardly extending beyond the head; third joint conical, very minute, not one-fourth of the length of the second. Antennæ simple, more than half the length of the body. Abdomen not extending beyond the hind wings. Legs rather slender; hind tibiæ with long spurs. Fore wings rather broad, straight in front, somewhat rounded at the tips, moderately oblique along the exterior border.

1. TAMILA NUNDINA.

Alba; alæ anticæ fasciis variis fusco-cupreis, orbiculari punctiformi, reniformi magna punctisque marginalibus nigricantibus; posticæ lunula discali fasciaque submarginali fusco-cupreis.

———, *Drury, Ins.* i. 36, pl. 18, f. 5.

Phalæna (Noctua) Nundina, *Drury, App.* ii.

Noctua (Acontia?) Nundina, *Westw. Drury*, i. 35, pl. 18, f. 5.

a. New York. Presented by E. Doubleday, Esq.

b. ———?

2. TAMILA? LIGNARIS.

Fœm. Ferruginea; alæ basi fulvescentes, fasciis plurimis approximatim perobliquis nigro-violaceis in alarum anticarum apicibus convergentibus; anticæ guttis duabus anticis discalibus nigris.

Itomia lignaris (Noctua semigeometra, *Heliothis alacris*), *Hübner. Samml. Exot. Schmett.* ii. 22, 159, f. 317, 318; *Verz. Schmett.* 271, 2673.

Surinam.

Genus 9. HELIOTHIS.

Corpus robustum. Proboscis mediocriter longa. Palpi porrecti, pilosi, caput superantes; articulus 3us longi-conicus; 2i quadrante non longior. Antennæ simplices, corporis dimidio non breviores. Abdomen alas posticas quadrante superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice subrotundatæ, margine exteriori mediocriter obliquo.

Heliothis, *Guen. Ann. Soc. Ent. Fr.* x. 55; *Noct.* ii. 177.

Melicleptria et Pyrrhia, p., *Hübner. Verz. Schmett.* 262.

Heliothis, p., *Ochs.*; *Boisd.*

Body stout. Proboscis moderately long. Palpi porrect, pilose, extending somewhat beyond the head; third joint elongate-conical, not more than one-fourth of the length of the second. Antennæ simple, full half the length of the body. Abdomen extending for one-fourth of its length beyond the hind wings. Legs stout; hind tibiæ with long spurs. Fore wings moderately broad, straight in front, somewhat rounded at the tips, moderately oblique along the hind border.

Europe.

A. Alæ anticæ ex parte roseæ aut purpureæ.

A. Alæ anticæ marginatæ. - - - marginata, *Kléem.*

B. Alæ anticæ vix marginatæ.

a. Alæ posticæ testaceæ. - - - purpurites, *Hübner.*

b. Alæ posticæ obscuræ.

a. Alæ anticæ pallide sulphurææ. - Victorina, *Sodoff.*

b. Alæ anticæ viridescens-testaceæ. - incarnata, *Frey.*

c. Alæ anticæ roseæ. - - - Rhodites, *Eversm.*

B. Alæ anticæ roseo aut purpureo non variæ.

A. Alæ anticæ cervinæ.

a. Alæ posticæ pallidæ.

a. Alæ posticæ margine non excavato. peltigera, *Wien. Verz.*

b. Alæ posticæ margine excavato. - armigera, *Hübner.*

b. Alæ posticæ nigricantes. - - - dipsacea, *Linn.*

B. Alæ anticæ cinereo-fuscæ.

a. Alæ posticæ nigricantes, albido variæ.

Ononidis, *Wien. Verz.*

b. Alæ posticæ albidæ fusco variæ. - scutosa, *Wien. Verz.*

1. HELIOTHIS PURPURITES.

Cervina ; abdomen testaceum, apice cervinum ; alæ anticæ pallide cervinæ, annulis duobus discalibus lineisque transversis ex parte undulosis fuscis, dimidio apicali roseo ; posticæ testaceæ, margine lato fusco.

———, *Engr. Pap. d' Eur.* 481, a, b.

Noctua purpurina, *Esp. Schmett.* iv. pl. 195, f. 2.

Noctua purpurites, *Hüb. Eur. Schmett. Noct.* f. 759—763. *Dup.*

Hist. Nat. Lép. Fr. vii. pl. 122, f. 3. *Frey. Beit.* pl. 136.

Noctua marginata, *Donov. Brit. Ins.* v. pl. 150.

Noctua rutilago, *Hüb. Eur. Schmett. Noct.* pl. 111, f. 519.

Pyrria purpurago, Hüb. Verz. Schmett. 233, 2335.

Heliothis purpurites, Treit. Schmett. v. 234, 8. *Boisd. Ind. Méth.* 163, 1310. *Guen. Noct.* ii. 178, 926.

Heliothisa purpurites, Meig. Syst. Besch. iii. 232, 19, pl. 129, f. 16.

Hungary.

a, b. Europe. From M. Becker's collection.

2. HELIOTHIS VICTORINA.

Alæ anticæ pallide sulphuræ, a medio roseo-purpurascens, signo venæ transversæ obscuriore, strigis duabus distantibus, posteriore obsoleta, purpureis ; posticæ fuscescentes, postice obscuratæ, ciliis albidis roseo-tinctis.

Heliothis Victorina, Sodoffsky, Ent. Zeit. Stett. x. 130.

Caucasus.

3. HELIOTHIS MARGINATA.

Ferruginea ; abdomen testaceum ; alæ anticæ ochraceæ, fascia lata marginali ferrugineo-purpurascens fusco marginata, annulis duobus discalibus lineisque tribus transversis variis ferrugineis, lunulis exterioribus fuscis ochraceo marginatis ; posticæ testaceæ, litura discali margineque lato nigricantibus.

———, *Engr. Pap. d' Eur.* 480, a—c.

Noctua marginata, *Kléem, Beit.* ii. pl. 7, f. 6—8. *Fabr. Ent. Syst.* iii. 2, 88, 260. *Dup. Hist. Nat. Lép. Fr.* vii. pl. 119, f. 8.

Frey. Ent. Zeit. Stett. ii. 109.

Noctua rutilago, *Wien. Verz.* 88, 4. *Fuessl. Mag.* 219. *Schr. Faun. Boic.* 1579. *Hüb. Eur. Schmett. Noct.* f. 185.

Noctua umbrago, *Esp. Schmett.* iv. pl. 185, f. 6, 7.

Noctua conspicua, *Bork. Eur. Schmett.* iv. 50.

Noctua marginago, *Haw. Lep. Brit.* 217.

Pyrrhia rutilago, *Hübner. Verz. Schmett.* 233, 2337.

Heliothis marginata, *Treit. Schmett.* v. 232, 7. *Steph. Ill. Brit. Ent.* iii. 108. *Boisd. Ind. Méth.* 163, 1309. *Guen. Noct.* ii. 178, 927.

Heliothisa marginata, *Meig. Syst. Besch.* iii. 233, 20, pl. 120, f. 17.

a—h. England. From Mr. Stephens' collection.

i—k. England.

l, m. Europe. From M. Becker's collection.

n, o. Germany.

4. HELIOTHIS INCARNATA.

Roseo-testacea ; alæ anticæ viridescens-testaceæ, roseo marginatæ, fascia obliqua incompleta subobsoleta fuscenscente, nonnunquam lituris costalibus punctisque discalibus nigris ; posticæ nigro-fusæ, basi plus minusve pallidiores, ciliis roseis.

Noctua incarnata, *Frey. Beit.* iii. pl. 256, f. 4 ; iv. pl. 383.

Heliothis incarnata, *Eversm. Faun. Volg-Ural.* 329. *Guen. Noct.* ii. 179, 930.

Heliothis Boisdualii, *Ramb. Faun. Andalus. Boisd. Ind. Méth.* 163, 1311. *Herr.-Schæff. Schmett. Eur.* ii. pl. 92, f. 262.

Sarepta.

a. Europe. From M. Becker's collection.

5. HELIOTHIS RHODITES.

Alæ anticæ purpurascens-roseæ, maculis tribus longitudinalibus luteo-albis ; posticæ subcinereæ, purpureo micantes.

Heliothis Rhodites, *Eversmann, Bull. Soc. Imp. Nat. Mosc.* 1851, xxiv. N, 2, 635, 22.

Sarepta. Southern and eastern borders of the Black Sea.

6. HELIOTHIS PELTIGERA.

Pallide cervina ; abdomen basi albidum ; alæ anticæ fascia lata plagaque postica interiore obscurioribus, maculis duabus guttisq[ue] costalibus nigro-cinereis, puncto postico submarginali atro, macula parva basim versus subochracea ; posticæ albidæ, lunula discali margineque latissimo nigriscentibus.

- , *Engr. Pap. d' Eur.* 555, a.
- Noctua peltigera*, *Wien. Verz.* 89, 2. *Hübner. Eur. Schmett. Noct.* pl. 63, f. 300. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 119, f. 5. *Frey. Beit.* ii. pl. 167.
- Noctua Barbara*, *Fabr. Ent. Syst.* iii. 2, 111, 334. *Coqueb. Ill. Icon.* pl. 17, f. 3.
- Noctua Florentina*, *Esp. Schmett.* iv. pl. 135, f. 2.
- Noctua scutigera*, *Bork. Eur. Schmett.* iv. 93, 37.
- Noctua straminea*, *Donov. Brit. Ins.* ii. pl. 61.
- Heliothis peltigera*, *Treit. Schmett.* v. 227, 5. *Steph. Ill. Brit. Ent. Haust.* iii. 109. *Boisd. Ind. Méth.* 163, 1307. *Guen. Noct.* ii. 180, 931.
- Phalæna-Noctua Alpheia*, *Cram. Pap. Exot.* iii. 99, pl. 250, f. F.
- Melicleptria peltigera*, *Hübner. Verz. Schmett.* 262, 2576.
- Melicleptria Alpheia*, *Hübner. Verz. Schmett.* 262, 2577.
- Heliothisa peltigera*, *Meig. Syst. Besch.* iii. 234, pl. 120, f. 14.
- a—d. England. From Mr. Stephens' collection.
- e, f. England.
- g. Devonshire. Presented by W. Raddon, Esq.
- h. South Africa. From Mr. Argent's collection.
- i. South Africa. Presented by Dr. A. Smith.
- j. Nepaul. Presented by the Entomological Club.
- k. North Bengal. Presented by W. W. Saunders, Esq.
- l—n. Cape. From M. Dregé's collection.
- o. New Zealand. Presented by Dr. Sinclair.
- p. Sicily. From Mr. Melly's collection.
- q, r. Europe. From M. Becker's collection.
- s, t. Gibraltar. From Mr. Milne's collection.

Var.? *Straminea*; *alæ anticæ maculis marginalibus et submarginalibus guttisque discalibus ferrugineis, fascia exteriorē sordide straminea, margine fusco; posticæ testaceæ, macula guttaque discalibus fasciaque lata exteriorē maculam testaceam includente ferruginea.*

Phalæna Charmione, *Stoll, Cram. Pap. Exot.* v. 162, pl. 36, f. 10. Cape.

7. HELIOTHIS ARMIGERA.

Pallide cervina; alæ anticæ fusciscentis plus minusve fasciatæ et nebulosæ, orbiculari et reniformi nigricantibus; posticæ pallidiores, litura discali margineque latissimo sæpe excavato nigricantibus.

Noctua armigera, *Hübner. Noct.* pl. 79, f. 370. *Dup. Pap. de France*, vii. 310, pl. 119, f. 5, 6. *Frey. Beit.* iii. pl. 203.

Heliothis armigera, *Treit. Schmett. von Eur.* iii. 230, 6. *Boisd. Faun. Ent. Mad. Bomb. et Maur. Lép.* 98, 1; *Ind. Méth.* 163, 1308. *Guen. Noct.* ii. 181, 933.

Heliothis armigera, *Meig. Syst. Besch.* iii. 234, 22, pl. 120, f. 15.

Europe. Africa. Madagascar. Mauritius. Bengal.

a. England. From Mr. Stephens' collection.

b. England.

c. Europe. From M. Becker's collection.

d, e. Gibraltar. From Mr. Milne's collection.

f, g. Navigator's Isles.

h. Moreton Bay. Presented by — Gibbons, Esq.

i. New Zealand. Presented by Dr. Sinclair.

j. New Zealand. Presented by the Rev. W. Colenso.

k. New Zealand. Presented by Col. Bolton.

l. Rio Janeiro. From Mr. Stevens' collection.

m, n. New Zealand. From Mr. Churton's collection.

o, p. Port Natal. From Dr. Krauss' collection.

q—t. Congo. Presented by Sir J. Richardson.

v. Sidney. From Mr. Lambert's collection.

u, w. Nice. From Dr. Leach's collection.

x. Venezuela. From Mr. Dyson's collection.

y. Georgia. From Mr. Milne's collection.

z. Australia. Presented by J. F. Stephens, Esq.

aa. Australia. From Mr. Milne's collection.

bb. Australia.

cc. Jamaica.

dd. South Africa. Presented by Dr. A. Smith.

ee. Interior of South Africa. Presented by the late Earl of Derby.

ff, gg. Cape. Presented by Dr. Horsfield.

hh. South Africa. From Mr. Pamplin's collection.

ii. Mexico. From Mr. Hartweg's collection.

jj, kk. North India. Presented by Gen. Hearsay.

ll. Ceylon. From the Rev. J. Wenham's collection.

mm, nn. Adelaide. Presented by the Entomological Club.

oo. ———? From Mr. Milne's collection.

pp. ———?

8. HELIOTHIS DIPSACEA.

Cervina ; alæ anticæ lineis indistinctis angulosis, punctis fasciæque media obliqua arcuata fusciscentibus, guttis marginalibus nigricantibus ; posticæ nigricantes, striga basali, fascia irregulari, macula marginali ciliisque testaceo-albidis.

———, *Merian, Ins. Eur.* ii. pl. 49. *Engr. Pap. d' Eur.* 553, a, c. *Schæff. Icon. Ins. Ratisb.* ii. pl. 173.

Phalæna-Noctua dipsacea, Linn. Syst. Nat. 856, 185. *Gmel. ed. Syst. Nat.* i. 5, 2553, 185.

Noctua dipsacea, Wien. Verz. 89, 3. *Fabr. Sp. Ins.* ii. 217, 45 ; *Mant. Ins.* ii. 143, 65 ; *Ent. Syst.* iii. 2, 33, 83. *Esp. Schmett.* iv. pl. 172, f. 1—3 ; pl. 185, f. 1—6. *Bork. Eur. Schmett.* iv. 89, 35. *Hübner. Eur. Schmett. Noct.* pl. 63, f. 311. *Dup. Hist. Nat. Léop. Fr.* vii. 304, pl. 119, f. 2. *Schr. Faun. Boic.* 1587. *Scriba, Beit.* pl. 12, f. 3—5. *Brahm, Ins.* 399. *Donov. Brit. Ins.* x. pl. 327.

Heliothis dipsacea, Treit. Schmett. v. 220, 3. *Steph. Ill. Brit. Ent. Haust.* iii. 109. *Boisd. Ind. Méth.* 163, 1305. *Guen. Noct.* ii. 181, 934.

Melicleptria dipsacea, Hübn. Verz. Schmett. 262, 2578.

Heliothisa dipsacea, Meig. Handb. 183, 94 ; *Syst. Besch.* iii. 231, 16, pl. 120, f. 12.

a. England.

b, c. England. From Mr. Stephens' collection.

d—f. England. From Mr. Milne's collection.

g, h. Hungary. From Mr. Milne's collection.

i. ———? Presented by the Entomological Club.

j. ———?

9. HELIOTHIS ONONIDIS.

Fusco-cinerea ; alæ anticæ striga basali, maculis duabus discalibus fasciisque duabus exterioribus nigro-fuscis ; posticæ nigricantes, maculis tribus ciliisque sordide albidis.

———, *Engr. Pap. d' Eur.* 554, a, b, d, e.

Noctua Ononidis, Wien. Verz. 89, 4. *Fabr. Mant. Ins.* ii. 143, 66 ; *Ent. Syst.* iii. 2, 34, 84. *Esp. Schmett.* iv. pl. 172, f. 4—6. *Bork. Eur. Schmett.* iv. 87, 34. *Hübner. Eur. Schmett. Noct.* pl. 63, f. 312. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 119, f. 3.

Melicleptria Ononis, Hübn. Verz. Schmett. 262, 2579.

Heliothisa Ononis, Meig. Syst. Besch. iii. 230, 15, pl. 120, f. 13.

Heliothis Ononidis, *Treit. Schmett.* v. 217, 2. *Boisd. Ind. Méth.* 162, 1304. *Eversm. Faun. Volg-Ural.* 326. *Guen. Noct.* ii. 182, 935.

Phalæna-Noctua Ononidis, *Gmel. ed. Syst. Nat.* i. 5, 2554, 1098.

a, b. Europe. From M. Becker's collection.

10. HELIOTHIS SCUTOSA.

Cinerascens ; *alæ anticæ cinereo-fuscescentes, fascia repanda, lineæ submarginali venisque albidis, maculis discalibus maximis nigro marginatis, lunulis marginalibus nigris albo extus marginatis* ; *posticæ albidæ, macula lineaque discalibus margineque lato exciso fuscis.*

———, *Engr. Pap. d'Eur.* 552, *a, b.*

Noctua scutosa, *Wien. Verz.* 89, 1. *Fabr. Mant. Ins.* ii. 142, 63 ; *Ent. Syst.* iii. 2, 33, 81. *Esp. Schmett.* iv. pl. 108, f. 1, 2. *Bork. Eur. Schmett.* iv. 84, 33. *Hüb. Eur. Schmett. Noct.* pl. 63, f. 309. *Dup. Hist. Nat. Léop. Fr.* vii. 301, pl. 119, f. 1. *Frey. Beit.* ii. pl. 191.

Phalæna-Noctua scutosa, *Gmel. ed. Syst. Nat.* i. 5, 2550, 1079.

Melicleptria scutosa, *Hüb. Verz. Schmett.* 262, 2575.

Heliothis scutosa, *Treit. Schmett.* v. 224, 4. *Curt. Brit. Ent.* pl. 595. *Boisd. Ind. Méth.* 163, 1306. *Guen. Noct.* ii. 182, 936.

Heliothisa scutosa, *Meig. Syst. Besch.* v. 231, 17, pl. 120, f. 11.

a. England. From Mr. Stephens' collection.

b. Ukraine. Presented by Dr. Dowler.

c, d. Europe. From M. Becker's collection.

North America.

11. HELIOTHIS SPINOSÆ.

Var. ? *Fusco-cuprea* ; *abdomen cinerascens* ; *alæ anticæ apud medium albidæ, lineis transversis undulatis albis, orbiculari et reniformi maximis, guttis marginalibus nigris oblongis albido marginatis* ; *posticæ pallidæ, litura discali margineque cupreis.*

Heliothis Spinosa, *Guen. Noct.* ii. 182, 937.

Canada.

a—c. North America ? Presented by the Entomological Club.

12. HELIOTHIS PYRALIS.

Mas. *Flava; caput, thorax et alarum margines lati apicales rufescentia; alæ guttis submarginalibus albis, anticæ maculis anticis rufescentibus.*

Hemeroplanis pyralis (Noctua semigeometra, *Heliothis alacris*),
Hübner. Samml. Exot. Schmett. i. 23, 64, f. 127, 128.

Georgia or Florida.

13. HELIOTHIS EXPRIMENS.

Mas. *Cervina; abdomen pallidum; alæ anticæ apud medium obscuriores, lineis transversis angulosis ferrugineis, lineis medianis nigricantibus undulatis, orbiculari et reniformi magnis ferrugineo marginatis; posticæ testaceæ, litura discali nigricante, margine lato nigro-cupreo.*

Male. Fawn-colour. Abdomen paler than the thorax. Fore wings with transverse angular ferruginous lines; median lines blackish, undulating, more distinct than the others, and with the adjoining part of the wing darker than the latter elsewhere; orbicular and reniform spots large, with ferruginous borders. Hind wings testaceous, with a blackish discal mark and broad blackish cupreous borders, which have a brighter cupreous margin. Length of the body $6\frac{1}{2}$ lines; of the wings 15 lines.

a. Orilla, West Canada. From Mr. Bush's collection.

b. Canada.

South America.

14. HELIOTHIS CILISCA.

Ferruginea, H. marginatæ affinis; alæ anticæ minus obscuræ, rufo magis conspersæ, lineis et macularum marginibus magis rufis, fascia purpureo-fusca submarginali e lunulis magis constricta, spatio marginali concolore; posticæ fasciâ rufescente.

Heliothis cilisca, *Guen. Noct.* ii. 179, 929.

Brazil.

15. HELIOTHIS GOSSYPH.

Cervino-testacea ; abdomen nigricans, fasciis testaceis ; alæ anticæ lineis transversis angulosis nigris, macula discali nonnunquam alba ; posticæ albidæ, margine cinereo.

Phalæna-Noctua Gossypii, *Anon. Ins. Surinam*, i. 53, pl. 23.
Surinam.

Africa.

16. HELIOTHIS SCUTULIGERA.

Pallide cervina ; alæ anticæ macula orbiculari obsoleta, reniformi magna nigricante, linea submarginali vaga nigricante pallido punctata, ciliis longis squamosis linea nigricante ; posticæ margine lato nigricante e macula rotundata interrupto.

Heliothis scutuligera, *Guen. Noct.* ii. 180, 932.
Cape.

17. HELIOTHIS PULVEROSA.

Mas. Subtestaceo-cinerea, fusco subconspersa ; alæ anticæ margine interiore fasciæque exteriori cinereo-fuscis, lineis transversis undulatis valde indistinctis, lituris costalibus fuscis, guttis marginalibus nigris minimis, orbiculari et reniformi fuscis indistinctis ; posticæ albidæ, litura discali margineque lato æneis.

Male. Cinereous, with a slight testaceous tinge. Thorax and fore wings slightly speckled with brown. Fore wings cinereous-brown along the interior border, and with an exterior band of the same hue ; transverse lines undulating, very indistinct ; costal marks brown ; marginal dots black, very minute ; orbicular and reniform spots brown, indistinct. Hind wings whitish ; discal mark and borders æneous, the latter broad. Length of the body 8 lines ; of the wings 16 lines.

a. Cape. From M. Dregé's collection.

18. HELIOTHIS DEFINIENS.

Mas. *Cinerea* ; abdomen *fuscescens* ; alæ anticæ lineis transversis undulatis indistinctis fuscescentibus albido marginatis, costa lituris fuscescentibus et albidis, guttis marginalibus nigris lunatis pallido marginatis, linea submarginali e strigis indistinctis fuscis, claviformi orbiculari et reniformi distinctis fusco marginatis, orbiculari albido annulata ; posticæ pallide cinereæ, margine latissimo æneo-fusco, ciliis albis.

Male. Cinereous. Abdomen brownish except at the base. Fore wings with the transverse lines undulating, indistinct, brownish, with whitish borders ; costa with brownish and whitish marks ; marginal dots black, lunate, with pale borders ; submarginal line represented by indistinct brown streaks ; claviform, orbicular, and reniform spots distinct, with brown borders ; orbicular with an inner whitish border, a little less than half the size of the reniform. Hind wings pale cinereous, with very broad æneous-brown borders ; ciliæ white. Length of the body $5\frac{1}{2}$ lines ; of the wings 13 lines.

a. South Africa. Presented by Dr. A. Smith.

Asia.

19. HELIOTHIS FLAVA.

Alæ flavæ ; anticæ fusco striatæ, macula mediana nigra ; posticæ fascia submarginali nigra ; alæ subtus fascia submarginali nigra, anticæ maculis duabus nigris.

Heliothis flava, Bremer und Grey, *Beit. zur Schmett. Fauna des Nordlichen China's*, 18, 94.

North China.

20. HELIOTHIS TEMPERATA.

Fœm. *Testacea* ; alæ anticæ lineis transversis angulosis nigricantibus, exteriore duplicata, fascia exteriore cinereo-fusca, linea submarginali distincta, orbiculari et reniformi valde indistinctis ; alæ posticæ margine lato cinereo-fusco ex parte excavato.

Male. Testaceous. Fore wings with transverse angulose blackish lines, the exterior one double, and having between it and

the distinct submarginal line a grayish-brown band ; orbicular and reniform spots very indistinct. Hind wings with broad grayish brown borders, which are partly excavated on the exterior side. Length of the body $5\frac{1}{2}$ lines ; of the wings 13 lines.

Hindustan. In Mr. Saunders' collection.

New Zealand.

21. HELIOTHIS CONFERTA.

Mas et fœm. *Cervina* ; abdomen testaceum ; alæ anticæ lineis transversis undulatis nigricantibus, exteriore fasciaque indistincta cinerascens contiguâ, guttis marginalibus nigris minimis, orbiculari et reniformi discis marginibusque nigricantibus ; posticæ albido-testaceæ, litura discali margineque lato nonnunquam excavato æneo-fuscis.

Male and female. Pale or bright fawn-colour. Abdomen testaceous. Fore wings with transverse undulating blackish lines, the exterior one double, and contiguous to an indistinct grayish band ; marginal dots black, very minute ; orbicular and reniform spots with blackish disks and borders, the former much smaller than the latter. Hind wings whitish testaceous, with broad æneous-brown borders, which are occasionally excavated on the exterior side ; discal mark of the same hue. Length of the body 7 lines ; of the wings 16 lines.

a—c. New Zealand. Presented by Dr. Sinclair.

d. New Zealand. Presented by Col. Bolton.

Oceania.

22. HELIOTHIS ASSUETA.

Alæ anticæ late fulvæ, subdentatæ, apud marginem exteriorem obscuriores, lineis parallelis undulatis nigricantibus bene determinatis, duabus medianis remotis duplicatis, extrabasilari angulosa, umbra mediâ tenui, linea submarginali vaga nigricante apud medium angulata, orbiculari et reniformi annularibus obscurioribus apud medium guttatis ; posticæ concolores, margine lato nigro.

Heliothis assueta, Guen. Noct. ii. 178, 928.

Otaheite.

23. HELIOTHIS SEPARATA.

Fœm. *Testacea ; alæ anticæ lineis transversis angulosis fuscis, exteriore duplicata, fascia exteriore cuprea, linea submarginali distincta, orbiculari et reniformi incompletis indistinctis ; posticæ margine lato cupreo.*

Female. Testaceous. Fore wings with transverse angulose brown lines, of which the exterior one is double and inclosed in a cupreous band ; submarginal line distinct ; orbicular and reniform spots incomplete, indistinct. Hind wings with a broad cupreous border. Length of the body 6 lines ; of the wings 14 lines.

a. Navigator's Isles.

Country unknown.

24. HELIOTHIS PUNCTIFERA.

Pallide cervina ; thorax fasciis pallidioribus et obscurioribus ; abdomen testaceum ; alæ anticæ lineis transversis undulatis ferrugineis, exteriore lineaque albida guttulari conjunctis, costa lituris nigricantibus et albidis, claviformi, orbiculari et reniformi distinctis, reniformis disco nigro ; posticæ albidæ, litura discali margineque lato æneis.

Pale fawn-colour. Thorax with paler and darker bands. Abdomen testaceous. Fore wings with transverse undulating ferruginous lines, of which the exterior one is accompanied on its outer side by a row of whitish dots ; submarginal line indistinct ; marginal dots black, with whitish dots on the inner side ; costa with blackish and whitish marks, claviform, orbicular and reniform spots distinct, the two former together not larger than the latter, which has a blackish disk. Hind wings whitish ; discal mark æneous, as is also the broad border. Length of the body $5\frac{1}{2}$ lines ; of the wings 13 lines.

a, b. ——— ? Presented by the Entomological Club.

Genus 10. ANTHÆCIA.

Statura plerumque parva. Corpus sat gracile. Proboscis mediocriter longa. Palpi breves, pilosi, sat graciles, caput non superantes ; articulus 3us minimus, 2i quadrante non longior. Antennæ simplices, corporis dimidio paullo longiores. Pedes graciles ; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter

latæ sat augustæ, apud costam rectæ, apice rotundatæ, margine exteriori subobliquo aut sat obliquo.

Trypana, *Guen. Ann. Soc. Ent. Fr.* x. 58.

Anthœcia, *Boisd. Ind. Méth.* 162. *Dup. Guen. Noct.* ii. 183.

Heliothis, p., *Ochs.*; *Treit.*

Melicleptria, p., *Hübner Verz. Schmett.* 262.

Size generally small. Body rather slender. Proboscis moderately long. Palpi short, pilose, rather slender, not extending beyond the head; third joint very small, not one-fourth of the length of the second. Antennæ simple, a little more than half the length of the body. Legs slender; hind tibiæ with long spurs. Fore wings moderately broad or rather narrow, straight in front, rounded at the tips, slightly or rather oblique along the exterior border.

Europe.

1. ANTHŒCIA CORA.

Cupreo-fusca, subtus pallida; alæ anticæ fasciis duabus diffusis nigro-fuscis, lineis duabus valde undulatis albidis, macula costali subapicali nigra; posticæ luteæ, basi margineque lato fuscis, ciliis pallidis.

Anthœcia Cora, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1837; *Faun. Volg-Ural.* 324. *Dup. Suppl.* iv. 227, pl. 70. *Guen. Noct.* ii. 185, 941. *Herr.-Schæff. Schmett. Eur.* ii. pl. 49, f. 246, 247.

South Russia.

a—d. Europe. From M. Becker's collection.

2. ANTHŒCIA PULCHRA.

Cinerea; abdomen nigricans, segmentorum marginibus albidis; alæ anticæ purpureæ, fascia margineque exteriori purpurascente-cinereis, illa albedo marginata; posticæ nigro-cupreæ, maculis duabus discalibus ciliisque albis.

Anthœcia pulchra, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1842; *Faun. Volg-Ural.* 326. *Dup. Suppl.* iii. 524, pl. 90. *Guen. Noct.* ii. 186, 945. *Herr.-Schæff. Schmett. Eur.* ii. pl. 43, f. 217, 218.

Ural Region.

a, b. Europe. From M. Becker's collection.

3. ANTHÆCIA DOS.

Cervina ; abdomen nigro-cinereum, albo marginatum ; alæ anticæ angustæ, lanceolatæ ; posticæ nigræ, fascia ciliisque albis.

Noctua Dos, *Frey. Beit.* iii. 98, pl. 263, f. 4.

Anthæcia Dos, *Guen. Noct.* ii. 187, 946. *Herr.-Schæff. Schmett. Eur.* ii. pl. 55, f. 274, 275.

Constantinople.

4. ANTHÆCIA COGNATA.

Cervina, subtus albido-testacea ; abdomen nigricans ; alæ anticæ fascia discali antice divisa fasciæque tenui submarginali albido-testaceis ; posticæ nigræ, fascia ciliisque albidis.

Noctua cognata, *Geyer, Schmett.* f. 828. *Frey.* ii. pl. 110 ; *Beitr.* 134, pl. 135, f. 3.

Heliothisa cognata, *Meig. Syst. Besch.* iii. 230, 14, pl. 120, f. 9 ; pl. 121, f. 3.

Heliothis cognata, *Treit. Suppl.* 142. *Dup. Suppl.* iii. 434, pl. 38, f. 4.

Anthæcia cognata, *Boisd. Ind. Méth.* 162, 1301. *Guen. Noct.* ii. 187, 947.

Hungary.

a—e. Europe. From M. Becker's collection.

5. ANTHÆCIA CARDUI.

Cervina, subtus albido-testacea ; abdomen nigricans ; alæ anticæ fascia discali antice divisa fasciæque tenui submarginali albido-testaceis ; posticæ nigræ, fasciæque ciliisque albidis.

Noctua Cardui, *Esp. Schmett.* iv. pl. 191, f. 2, 3. *Hübner. Eur. Schmett. Noct.* pl. 64, f. 313. *Dup. Hist. Nat. Léop. Fr.* vii. 311, pl. 119, f. 4. *Frey. Beit.* ii. pl. 110.

Melicleptria Cardui, *Hübner. Verz. Schmett.* 262, 2580.

Heliothis Cardui, *Treit. Schmett.* v. 216, 1.

Heliothisa Cardui, *Meig. Syst. Besch.* iii. 229, 13, pl. 120, f. 10.

Anthæcia Cardui, *Boisd. Ind. Méth.* 162, 1302. *Eversm, Faun. Volg-Ural.* 325. *Guen. Noct.* ii. 187, 948.

a—d. Europe. From M. Becker's collection.

6. ANTHÆCIA RIVULOSA.

Alæ anticæ viridescence-cinereæ, pulverosæ, spatiis basilari et submarginali olivaceo nigricantibus, lineis optime determinatis, duabus medianis albis integris, submarginali vaga subrecta, macula reniformi e litura obscura vaga; posticæ saturate cinereæ, subtus albidæ.

Anthæcia rivulosa, *Guen. Noct. ii. 184, 938.*

North America.

7. ANTHÆCIA ARCIGERA.

Carneo-cinerea; alæ anticæ spatiis basali et subterminali ferrugineo-fuscis, spatii mediani dimidio nigricante, lineis medianis albis angustis integris bene determinatis, strigis nigris marginalibus; posticæ nigricantes, ciliis pallidioribus.

Anthæcia arcigera, *Guen. Noct. ii. 184, 939.*

North America.

8. ANTHÆCIA JAGUARINA.

Rufescens, magna; alæ anticæ linea 1a valde arcuata, umbra mediana maculaque reniformi olivaceis, lineis duabus medianis pallidis extus olivaceo late nebulosis, linea submarginali subobsoleta, litura costali subapicali obscura; posticæ fulvescentes, striga basali maculaque discali conjunctis margineque lato nigris.

Anthæcia Jaguarina, *Guen. Noct. ii. 184, 940.*

North America.

9. ANTHÆCIA LYNX.

Luteo-testacea; alæ anticæ cupreo-ferrugineæ, fasciis duabus diffusis incompletis margineque exteriore testaceis; posticæ luteæ, lunula discali margineque lato nigris connexis, ciliis albidis.

Anthæcia Lynx, *Guen. Noct. ii. 185, 942.*

North America.

a, b. New York. Presented by E. Doubleday, Esq.

c. New York. From Mr. Milne's collection.

d. ———?

10. ANTHÆCIA TUBERCULUM.

Fœm. *Nigro-fusca, flavo varia; alæ flavo ciliatæ; anticæ guttis basalibus, macula antica media fasciisque duabus undulosis postmediis, la postice furcata, flavis; posticæ macula basali flava.*

Melicleptria tuberculum (Noctua semigeometra, *Heliothis celetis*), *Hübner. Samml. Exot. Schmett.* iii. 29, 259, f. 517, 518.

Anthæcia tuberculum, *Guen. Noct.* ii. 185, 943.

Pennsylvania.

11. ANTHÆCIA BINA.

Abdomen fasciatum; alæ anticæ rufescente-fuscæ, extus obscure olivaceo-flavæ, subtus nigro flavo ferrugineoque variæ, lineis medianis subobsoletis apud costam albidis; posticæ nigre, maculis duabus ciliisque flavis.

Anthæcia bina, *Guen. Noct.* ii. 186, 944.

North America.

Country unknown.

12. ANTHÆCIA DORSILUTEA.

Lutea; antennæ fuscæ; abdomen supra nigrum, segmentorum marginibus posticis testaceis; alæ anticæ cervinæ, fasciis duabus pallidioribus testaceo marginatis, macula interiore testacea; posticæ cupreo-fuscæ, maculis duabus luteis, ciliis albidis.

Luteous. Antennæ brown. Abdomen black above, with a testaceous band on the hind border of each segment. Fore wings fawn-colour, with two paler bands, which have testaceous borders; a testaceous spot between the base and the first band, which is broad and undulating; second band marginal. Hind wings dark cupreous-brown, with two luteous spots at the base, and with whitish ciliæ. Length of the body $3\frac{1}{2}$ —4 lines; of the wings 9—10 lines.

a, b. ———?

Genus 11. JANTHINEA.

Statura parva. Corpus pilosum, sat validum. Proboscis mediocriter longa. Palpi pilosi, oblique ascendentes, longiusculi;

articulus 3us cylindricus, 2i dimidio longior. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas non superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ apud costam rectæ, apice acutæ, margine exteriori perobliquo.

Janthinea, *Guen. Noct.* ii. 188.

Heliothis, p., *Boisd.*

Anthœcia, p., *Duponch.*

Size small. Body pilose, moderately stout. Proboscis moderately long. Palpi pilose, obliquely ascending, rather long; third joint cylindrical, more than half the length of the second. Antennæ simple, much more than half the length of the body. Abdomen not extending beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Fore wings straight in front, acute at the tips, very oblique along the exterior border.

This genus has some affinities with the *Pyalites*.

1. JANTHINEA FRIWALDSZKII.

Cinerea; abdomen nigrum; alæ fascia obliqua ciliisque albis; anticæ cyaneæ fasciis nigris; posticæ nigræ.

Heliothis Friwaldskii, *Treits.; Duponch. Ann. Soc. Ent. Fr.* iv. 633, pl. 18, B, f. 2, 3. *Boisd. Ind. Méth.* 162, 1303. *Herr.-Schæff. Schmett. Eur.* ii. pl. 43, f. 215, 216.

Noctua Viola, *Frey. Beit.* iii. pl. 201, f. 4.

Janthinea Friwaldskii, *Guen. Noct.* ii. 188, 949.

Mount Balkan, Turkey.

a. Europe. From Dr. Frivaldsky's collection.

Genus 12. ANARTA.

Corpus pilosum, sat validum. Proboscis mediocriter longa. Palpi porrecti, plus minusve pilosi, caput paullo superantes; articulus 3us conicus, minimus. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus quatuor mediocriter longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice rotundatæ, margine exteriori subobliquo.

Anarta, Sympistis, Acolasis, p., et Odice, p., *Hübner. Verz. Schmett.* 256, 257, 261.

Anarta, *Ochs.; Treits.; Steph.; Boisd.; Guen.; Herr.-Schæff.*

Body pilose, moderately stout. Proboscis moderately long. Palpi porrect, more or less pilose, extending a little beyond the head; third joint conical, very minute. Antennæ simple, more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with four moderately long spurs. Fore wings moderately broad, straight in front, rounded at the tips, very slightly oblique along the exterior border.

Group 1.

Corpus pilosissimum: Alæ nigricantes, cinereo alboque plus minusve variæ.

Body very pilose. Wings blackish, more or less varied with gray or white.

Inhabitants of the Polar regions, or of the summits of the Alps.

Europe.

1. ANARTA MELANOPA.

Nigro-cinerea; alæ anticæ cinereæ, annulis duobus discalibus lineisque transversis duplicatis undulosis nigris, ciliis albo intercis; posticæ nigricantes, ciliis albis. Fœm.—Alæ posticæ lunula discali albida.

Noctua melanopa, Beck. Thunb. 1791, 42.

Noctua tristis, Hübn. Eur. Schmett. Noct. f. 446. Dup. Hist. Nat. Lép. Fr. vii. 297, pl. 118.

Noctua rupestris, Hübn. Noct. f. 644 (mas.).

Sympistis tristis, Hübn. Verz. Schmett. 202, 2572.

Sympistis rupestris, Hübn. Verz. Schmett. 202, 2573.

Anarta vidua, Treit. Schmett. v. 207.

Noctua vidua, Frey. Beit. iv. pl. 311, f. 3.

Anarta melanopa, Boisd. Ind. Méth. 161, 1296. Guen. Noct. ii. 190, 950. Herr.-Schæff. Schmett. Eur. ii. pl. 84, f. 433, 434.

Lapland. Swiss Alps.

a—h. Scotland. From Mr. Stephens' collection.

i, j. Scotland. From Mr. Stevens' collection.

k, l. Scotland. From Mr. Foxcroft's collection.

2. ANARTA VIDUA.

Nigro-cinerea ; alæ anticæ lineis transversis undulatis, macularum marginibus strigisque submarginalibus nigris cano marginatis ; posticæ albæ, macula discali lunata margineque lato nigris, ciliis albis.

Noctua vidua, *Hübner. Eur. Schmett. Noct.* pl. 86, f. 403.

Symphistis vidua, *Hübner. Verz. Schmett.* 262, 2571.

Anarta vidua, *Guen. Noct.* ii. 190, 951.

Lapland.

3. ANARTA FUNEBRIS.

Obscure cinerea ; alæ anticæ fascia media nigricante antice obsoleta lineis duabus undulatis nigris inclusa, linea submarginali pallide cinerea ; posticæ nigricantes, litura discali nigra, ciliis albis.

Noctua funebris, *Hubner. Eur. Schmett. Noct.* pl. 92, f. 433. *Dup. Hist. Nat. Léop. Fr.* vii. 289, pl. 118, f. 5.

Acolasis funebris, *Hübner. Verz. Schmett.* 256, 2524.

Anarta funebris, *Treit. Schmett.* v. 209. *Boisd. Ind. Méth.* 161, 1297. *Herr.-Schæff. Schmett. Eur.* ii. pl. 42, f. 209, 210. *Guen. Noct.* ii. 191, 952.

Heliothisa funebris, *Meig. Syst. Besch.* iii. 228, 9, pl. 119, f. 4.

Anarta nigrita, *Boisd. Ind. Méth.* 161, 1298.

Swiss Alps.

4. ANARTA AMISSA.

Mas. Alæ anticæ nigræ, cinereo albidoque irroratæ, fimbria alba nigro intersecta ; posticæ subatræ, ciliis albis. Fæm.—Alæ anticæ fuliginosæ, fascia media nigra, fimbria nigricante cinereo intersecta ; posticæ atræ, ciliis albis.

Anarta amissa, *Lefebvre, Ann. Soc. Ent. Fr.* v. 397, pl. 10, f. 6, 7. *Dup. Suppl.* iii. 598, pl. 49, f. 7. *Boisd. Ind. Méth.* 161, 1295. *Herr.-Schæff. Schmett. Eur.* ii. pl. 42, f. [211, 212. *Guen. Noct.* ii. 192, 953.

a—c. West Greenland. Presented by M. Boie.

d. Lapland. Presented by M. Drewsen.

5. ANARTA QUIETA.

Nigro-cinerea ; *alæ anticæ lineis transversis angulosis et macularum annulis albidis nigro marginatis, ciliis albido notatis ; posticæ cinereæ, fasciis duabus exterioribus albidis, una nigra marginata, altera nigro notata, ciliis albidis.*

Noctua quieta, *Hübner. Eur. Schmett. Noct. f.* 485.

Odice quieta, *Hübner. Verz. Schmett.* 258, 2542.

Anarta quieta, *Guen. Noct. ii.* 193, 955.

Lapland.

6. ANARTA MELALEUCA.

Nigra ; *abdominis latera albida ; alæ anticæ fasciis strigosis, maculis et ciliarum guttis albidis, reniformi nigro notata ; posticæ albæ, gutta discali margineque lato atris, ciliis albis.*

Phalæna-Noctua Myrtilli, *Linn. Syst. Nat.* 853, 167.

Noctua melaleuca, *Beck. Thunb.* 1791, 42, f. 12.

Noctua leucoptera, *Esp. Schmett. iv. pl.* 189, f. 3.

Noctua mæsta, *Hübner. Eur. Schmett. Noct. pl.* 77, f. 357. *Dup. Hist. Nat. Léop. Fr. vii.* 291, pl. 118, f. 3.

Anarta melaleuca, *Treit. Schmett. v.* 205, 3. *Boisd. Ind. Méth.* 161, 1293. *Guen. Noct. ii.* 193, 956.

Heliothisa melaleuca, *Meig. Syst. Besch. iii.* 225, 4, pl. 119, f. 2.

Sympistis melaleuca, *Hübner. Samml. Exot. Schmett. ii. Lep. iv. Noct. iii. Semigeometrae, iv. Heliothentes D. Celetes, i. f.* 14 ; *Verz. Schmett.* 261, 2570.

Lapland.

7. ANARTA ALGIDA.

Alæ anticæ fuliginoso alboque variæ, strigis duabus nigro dentatis maculis ordinariis obsoletis, fimbria nigra albo intersecta ; posticæ albidæ, puncto fasciæque terminali atris, ciliis albis.

Anarta algida, *Lefebvre, Ann. Soc. Ent. Fr. v.* 395, pl. 10, f. 5.

Dup. Suppl. iii. 596, pl. 49. *Boisd. Ind. Méth.* 161, 1294.

Herr.-Schæff. Schmett. Eur. ii. pl. 78, f. 400. *Guen. Noct. ii.* 192, 954.

Lapland. Greenland.

a. Lapland. Presented by M. Drewsen.

This species is distinguished from the following by the more regular exterior lines of the fore wings.

North America:

8. ANARTA RICHARDSONI.

Cinereo-fusca ; thorax cano fasciatus ; alæ anticæ lineis undulatis nigris cano late marginatis, maculis cano nigroque ex parte marginatis, strigis exterioribus lunulisque marginalibus nigris, ciliis albo notatis ; posticæ canæ, margine lato nigro-fusco, ciliis albis.

Hadena Richardsoni, Curtis, Append. Ross. Narr. 2nd. Voy.

a, b. Arctic America. Presented by Sir J. Richardson.

Arctic America. Presented by Dr. Rae.

9. ANARTA IMPINGENS.

Cinereo-fusca ; abdomen testaceo-fuscum ; alæ anticæ lineis transversis obscure fuscis undulatis valde indistinctis, fascia media obscure fusca, orbiculari et reniformi subobsoletis, lituris costalibus pallidis ; posticæ sordide testaceæ, marginibus fuscescentibus.

Cinereous-brown. Abdomen testaceous-brown. Fore wings with the transverse lines dark brown, undulating, and very indistinct ; a middle band of the same hue. Orbicular and reniform spots almost obsolete ; some pale marks along the costa. Hind wings dingy testaceous, with brownish borders. Length of the body 5 lines ; of the wings 12 lines.

a, b. Rocky Mountains. Presented by the late Earl of Derby.

10. ANARTA SEPTENTRIONIS.

Cana, nigro varia ; abdomen cinereum ; alæ anticæ lineis transversis nigris incompletis, orbiculari et reniformi canis apud discos nigris ; posticæ albidæ, margine lato nigricante, ciliis albidis.

Hoary, varied with black. Abdomen cinereous. Fore wings with the transverse lines black, irregular, incomplete, and mostly formed of lunules ; orbicular and reniform spots hoary, with black disks. Hind wings whitish, with broad blackish borders ; ciliæ whitish. Length of the body $5\frac{1}{2}$ lines ; of the wings 14 lines.

This species is distinguished from *A. Richardsoni* by the different structure of the exterior lines, of which the inner one is contiguous to the reniform spot.

a. Repulse Bay. Presented by Dr. Rae.

11. ANARTA CONSTRICTA.

Mas. *Cana; thorax et abdomen nigro fasciata; alæ anticæ strigis duabus indistinctis testaceis, lineis transversis nigris angulosis, 1a et 2a interioribus distinctis, 3a tenui maculaque orbiculari connexis, submarginali valde incompleta, lunulis marginalibus nigris magnis connexis distinctis ex maxima parte nigris, maculis duabus costalibus nigris; posticæ cinereæ, linea discali angulosa lunulisque marginalibus nigricantibus.*

Male. Hoary. Thorax and abdomen with black bands. Fore wings with two slight testaceous streaks in the disk; the first interrupted by the orbicular spot; the other hindward and nearer the base; transverse lines black, zigzag; first and second lines interior, distinct; third more slender and more angular, touching the reniform spot; fourth or submarginal one very incomplete; marginal lunules large, black, connected; orbicular and reniform spots distinct, mostly black; two black costal spots. Hind wings cinereous, with a blackish angulose discal line, and blackish marginal lunules. Length of the body 4 lines; of the wings 11 lines.

a. Arctic Coast. Lat. $67\frac{1}{2}$ —68. Presented by Sir J. Richardson.

12. ANARTA RIGIDA.

Mas et fœm. *Cana; thorax antice nigro fasciatus; abdomen cinereum; alæ anticæ albidæ, nigro conspersæ, fasciis tribus interioribus duabusque exterioribus nigris, his incompletis, submarginali strigosa, orbiculari et reniformi apud discos nigro conspersis, macula intermedia nigra; posticæ cinereæ, gutta discali, striga undulata lunulisque marginalibus nigricantibus.* Mas.—*Antennæ serratæ.*

Male and female. Hoary. Thorax with a black band in front. Abdomen cinereous. Fore wings whitish, speckled with black, with three inferior and two exterior black bands, the latter incomplete and irregular, the submarginal one composed of streaks; orbicular and reniform spots speckled with black in the disks; a black mark between them. Hind wings cinereous; discal dot, undulating streak and marginal lunules blackish. *Male.*—*Antennæ serrated.* Length of the body 4— $4\frac{1}{2}$ lines; of the wings 11—12 lines.

a, b. Arctic Coast. Lat. $67\frac{1}{2}$ —68. Presented by Sir J. Richardson.

13. ANARTA BREPHOIDES.

Nigra. Mas.—*Corpus pilosissimum, ex parte cinereum; antennæ pectinatæ; alæ anticæ albo conspersæ, fasciis duabus albis, 2a exteriore angulata, maculis obsoletis; posticæ albæ, nigro marginatæ, ciliis ex parte albis.* Fœm.—*Alæ anticæ non fasciatæ?; posticæ nigræ, fascia lata discali alba.*

Black. *Male*.—Body with very long hairs, which are partly cinereous. Antennæ pectinated. Fore wings thinly and irregularly speckled with white, adorned with two white bands, the second one exterior and angular; spots obsolete. Hind wings white, with black borders; ciliæ partly white. *Female*.—Fore wings not banded? Hind wings black, with a broad white discal band. Length of the body 4—5 lines; of the wings 10—12 lines.

This species differs much from the others, and has some resemblance to the genus *Brephos*.

a—e. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

f. Fort Confidence. "Found on the ice, May 25th, 1849." Presented by Sir J. Richardson.

Group 2.

Corpus subpilosum. Alæ posticæ luteæ, nigro marginatæ.

Body slightly pilose. Hind wings luteous, with black borders.

14. ANARTA CORDIGERA.

Nigro-cinerea; alæ anticæ lineis transversis indeterminatis albidis, litura reniformi discali alba; posticæ luteæ, nigro late marginatæ.

Noctua cordigera, *Schalddt, Thunb. Mus.* 1792, 57. *Esp. Schmett.* iv. pl. 189, f. 2. *Hübner, Eur. Schmett. Noct.* pl. 147, f. 674, 675. *Dup. Hist. Nat. Léop. Fr.* vii. 289, pl. 118, f. 2.

Noctua albirena, *Hübner, Eur. Schmett. Noct.* pl. 21, f. 99.

Anarta cordigera, *Hübner, Verz. Schmett* 220, 2208. *Treit. Schmett.* v. 203, 2. *Boisd. Ind. Méth.* 161, 1292. *Guen. Noct.* ii. 194, 957.

Heliothisa cordigera, *Meig. Syst. Besch.* iii. 224, 1, pl. 119, f. 1.

Lapland. Switzerland.

- a. Scotland? Presented by J. C. Dale, Esq.
 b. Scotland. From Mr. Stevens' collection.
 c—f. Scotland. From Mr. Foxcroft's collection.
 g—m. Scotland. From Mr. Stevens' collection.
 n, o. Europe. From M. Becker's collection.
 p. ———?

15. ANARTA MYRTILLI.

Ferrugineo-rufa, albo varia; abdomen supra nigricans, segmentorum marginibus posticis testaceis; alæ anticæ lineis transversis angulosis albidis testaceis nigrisque, striga apud maculas discales alba, ciliis albo notatis; posticæ luteæ, nigro latissime marginatæ, ciliis albidis.

- , *Roës. Ins.* iv. 85, pl. 11, f. a—c. *Sepp, Ins.* iii. pl. 29. *Engr. Pap. d'Eur.* 437, a—d.
Phalæna-Noctua Myrtilli, Linn. Faun. Suec. 1168. *Gmel. ed. Syst. Nat.* i. 5, 2570, 167.
Noctua Myrtilli, Wien. Verz. 79, 23. *Fabr. Sp. Ins.* ii. 240, 149; *Mant. Ins.* ii. 184, 308; *Ent. Syst.* iii. 2, 126, 379. *Esp. Schmett.* iv. pl. 165, f. 1—3. *Bork. Eur. Schmett.* iv. 95, 38. *Rossi, Faun. Etrusc.* 1145. *Donov. Brit. Ins.* vii. pl. 221. *Hübner. Eur. Schmett. Noct.* pl. 21, f. 98. *Haw. Lep. Brit.* 9. *Dup. Hist. Nat. Léop. Fr.* vii. 286, pl. 118, f. 1.
Anarta Myrtilli, Hübner Verz. Schmett. 220, 2207. *Treit. Schmett.* v. 201, 1. *Steph. Ill. Brit. Ent. Haust.* iii. 111. *Curt. Brit. Ent.* pl. 145. *Boisd. Ind. Méth.* 161, 1291. *Guen. Noct.* ii. 194, 958.
Heliothisa Myrtilli, Meig. Syst. Besch. iii. 224, 2, pl. 118, f. 11.
 a—i. England. From Mr. Stephens' collection.
 j—n. England.
 o. Scotland. From Mr. Foxcroft's collection.
 p, q. Europe. From M. Becker's collection.
 r. ———?

16. ANARTA VIOLACEA.

Purpurea; thorax nigro fasciatus; abdomen nigrum, apice rubrum; alæ anticæ fasciis nigris, lituris anticis albidis, ciliis albis; posticæ luteæ, basi margineque lato nigris, ciliis testaceis.

- Anarta violacea, Herr.-Schæff. Schmett. Eur.* ii. pl. 55, f. 276, 277. *Guen. Noct.* ii. 195, 959.
 Turkey?

Genus 13. CYREBIA.

Corpus robustum. Palpi breves, porrecti, caput vix superantes; articulus 3us minutus, conicus. Antennæ simplices, corporis dimidio paullo longiores. Abdomen alas posticas vix superans. Pedes sat validi; tibiæ posticæ calcaribus longis. Alæ anticæ apud costam rectæ, apice angulatæ, margine exteriori perparum obliquo.

Cyrebia, *Guen. Noct.* ii. 195.

Anarta, p., *Herr.-Schæff.*

Body stout. Palpi short, porrect, hardly extending beyond the head; third joint minute, conical. Antennæ simple, a little more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Fore wings straight in front, angular at the tips, very slightly oblique along the exterior border.

1. CYREBIA LUPERIONOIDES.

Sordide olivacea; abdomen luteum; alæ anticæ lineis transversis undulatis fuscis, submarginali apud costam dilatata, macula discali trigona nigra, venis ferrugineis; posticæ luteæ, margine atro, ciliis luteis.

Anarta Chardinyi, *Herr.-Schæff. Schmett. Eur.* ii. pl. 92, f. 474.

Cyrebia Luperinoides, *Guen. Noct.* ii. 196, 960.

South Russia.

2. CYREBIA ANACHORETA.

Ferruginea; abdomen nigro-fuscum; alæ anticæ disco nigricantes, costa maculis strigae intermedia testaceis, linea submarginali undulata ciliisque pallidis; posticæ luteæ, nigro marginatæ, ciliis testaceis.

Anarta anachoreta, *Herr.-Schæff. Schmett. Eur.* ii. pl. 34, f. 167, 168.

Cyrebia anachoreta, *Guen. Noct.* ii. 196, 961.

South Russia.

Genus 14. PANEMERIA.

Corpus mediocriter validum, vix pilosum. Proboscis breviuscula. Palpi brevissimi, caput non superantes; articulus 3us minimus. Antennæ simplices, corporis dimidio perpaullo longiores. Abdomen alas posticas non superans. Pedes vix robusti; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice subangulatæ, margine exteriori subobliquo.

Heliodes, *Guen. Ann. Soc. Ent. Fr.* x. 61; *Noct.* ii. 197; *Dup.*

Anarta, p., *Ochs.*; *Treit.*; *Steph.*; *Boisd.*

Panemeria, *Hüb. Verz. Schmett.* 262.

Body moderately stout, very slightly pilose. Proboscis rather short. Palpi very short, not extending beyond the head; third joint very minute. Antennæ simple, little more than half the length of the body. Abdomen not extending quite so far as the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Fore wings moderately broad, straight in front, slightly angular at the tips; exterior border slightly oblique.

1. PANEMERIA ARBUTI.

Cinereo-fusca; alæ anticæ fasciis duabus obscurioribus, ciliis testaceis; posticæ nigro-cupreæ, fascia lutea, ciliis testaceis.

———, *Engr. Pap. d'Eur.* 606, a, b.

Noctua Arbuti, *Fabr. Sp. Ins.* ii. 241, 150; *Mant. Ins.* ii. 184, 309; *Ent. Syst.* iii. 2, 126, 380. *Schalddt, Thunb.* 1792, 54, *Donov. Brit. Ins.* pl. 343, f. 3. *Esp. Schmett.* iv. text. *Brahm, Ins.* 192.

Phalæna-Noctua Arbuti, *Gmel. ed. Syst. Nat.* i. 5, 2570, 1157.

Noctua domestica, *Kuhn, Naturf.* iii. pl. 1, f. 8.

Noctua Heliaca, *Wien. Verz.* 94, 7. *Bork. Eur. Schmett.* iv. 68, 25. *Hüb. Eur. Schmett. Noct.* pl. 64, f. 316. *Frey. Beitr.* pl. 119. *Dup. Hist. Nat. Léop. Fr.* vii. 293, pl. 118, f. 1.

Noctua fasciola, *Esp. Schmett.* iv. pl. 163, f. 1.

Noctua Policula, *Lang.* 1134.

Panemeria Heliaca, *Hüb. Verz. Schmett.* 262, 2581.

Anarta Heliaca, *Treit. Schmett.* v. 212, 7. *Steph. Ill. Brit. Ent. Haust.* iii. 112.

Heliothisa Heliaca, *Meig. Syst. Besch.* iii. 225, 3, pl. 118, f. 12.

Anarta Arbuti, *Boisd. Ind. Méth.* 162, 1300.

Heliodes Arbuti, *Guen. Noct.* ii. 197, 962.

a—l. England. From Mr. Stephens' collection.

m—r. England.

s. Scotland. From Mr. Foxcroft's collection.

t, v. Europe. From M. Becker's collection.

u, w. Europe. From Mr. Milne's collection.

2. PANEMERIA JOCOSA.

Fuscescens ; alæ anticæ lineis variis obscurioribus, fascia latissima pallidiore, fascia marginali glaucescente nigro marginata, ciliis luteis nigro variis ; posticæ luteæ, basi margineque atris, ciliis luteis.

Anarta jocosa, Herr.-Schæff. Schmett. Eur. ii. pl. 86, f. 444, 445.

Heliodes jocosa, Guen. Noct. ii. 198, 963.

Europe.

3. PANEMERIA TORTRICIFORMIS.

Alæ anticæ bifasciatæ, fusco, albido cervinoque variæ, ex parte albido strigatæ, squamis ciliisque chalybeis micantibus ornatæ, plaga costali subapicali flavescence-albo, macula discali nigricante chalybeo marginata ; posticæ luteæ, margine lato nigro.

Heliodes tortriciformis, Guen. Noct. ii. 198, 964.

Australia.

A D D E N D A

TO THE

Noctuities Trifidæ, Bombyciformes and Genuinæ.

 Page 18.

CYMATOPHORA ? MODERATA.

Fœm. *Fuscescente-murina* ; palpi oblique ascendentes, articulo 3o breviusculo ; abdomen cinereum ; alæ anticæ lineis canis indistinctis, guttis exterioribus nigris, linea submarginali bene determinata, orbiculari et reniformi magnis cano ex parte marginatis, orbiculari obliqua oblonga, reniformi valde excavata ; posticæ fuscescente-cinereæ.

Female. Brownish mouse-colour. Palpi obliquely ascending third joint elongate-conical, hardly one-fourth of the length of the second. Abdomen dull cinereous. Fore wings with the transverse lines hoary, nearly straight, rather indistinct, excepting the submarginal one, between which and the exterior median line there is a double row of indistinct blackish dots ; orbicular and reniform spots large, with incomplete hoary borders ; orbicular oblique, oblong, smaller than the reniform, which is much excavated on the outer side. Hind wings brownish cinereous. Length of the body 6 lines ; of the wings 14 lines.

a. Bogotà. From Mr. Stevens' collection.

CYMATOPHORA ALBUNCULA.

Mas. *Alæ anticæ obscure fusæ, maculis ordinariis uncinulo albo nigro circumscripto signatis ; alæ posticæ subcinereæ, externe obscuriores ; lunula discali nigricante.*

Cymatophora albuncula, *Eversmann, Bull. Soc. Imp. Nat. Mosc.*
1851, xxiv. No. 2, 627, 15.

Allied to *C. bipuncta*.

Irkoutzk.

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DIPHThERA PLACENS.

Fœm. *Albida*; *caput nigro bifasciatum*; *thorax nigro varius*, *fascia antica cervina*; *abdomen apicem versus cinereum*; *pedes nigro fasciati*; *alæ anticæ subargenteæ, strigis transversis, lituris costalibus, lineis angulosis maculisque nonnullis nigris, orbiculari et reniformi albo nigroque marginatis*; *posticæ albidæ, fuscescente marginatæ*.

Female. Whitish. Head with two black bands. Palpi black on the outer side. Thorax with two oblique black stripes, and with a black band, in front of which there is a broader fawn-coloured band. Abdomen cinereous towards the tip. Legs with black bands. Fore wings somewhat silvery, with black transverse streaks, with black costal marks, with irregular zigzag black transverse lines, and with a few black spots; first spot by the claviform mark; second between the orbicular and the reniform; third near the tip of the costa; fourth and fifth on the exterior border; orbicular and reniform spots with white and black borders, the former round, nearly half the size of the latter. Hind wings white, brownish along the borders. Length of the body 8 lines; of the wings 18 lines.

a. Bogotà. From Mr. Stevens' collection.

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ACRONYCTA DIFFUSA.

Cinerea; *thorax nigro conspersus*; *abdomen canum*; *alæ anticæ fusco ex parte nebulosæ, lineis transversis nigris undulatis duplicatis, lunulis marginalibus nigris, orbiculari et reniformi nigro marginatis*; *posticæ pallide cinereæ, fuscescente marginatæ*.

Cinereous. Thorax speckled with black. Abdomen hoary. Fore wings shaded here and there with dark brown: transverse lines black, undulating, double; the black submarginal streaks between the veins ending in marginal lunules; orbicular and reniform

spots with black borders, the former almost round, about one-fourth of the size of the latter. Hind wings pale cinereous, with brownish borders. Length of the body 6 lines; of the wings 16 lines.

a Turkey. Presented by W. K. Loftus, Esq.

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ACRONYCTA CIRCULIFERA.

Fœm. *Alba*; *thorax nigro bifasciatus*; *tarsi nigro fasciati*; *alæ anticæ fusco subconspersæ, fascia interiore incompleta fusca, lineis tribus nigris, 1a 2aque connexis, lunulis marginalibus valde elongatis, orbiculari et reniformi fusco submarginatis, orbiculari subrotunda pupillata, reniformi extus valde excavata*; *posticæ cinereæ, lunulis marginalibus fuscis, ciliis albis.*

Female. White. Thorax with two black bands in front. Tarsi with black bands. Fore wings slightly speckled with brown, with an incomplete brown band near the base, and with three irregular black lines; first and second lines joined together by a black streak behind the orbicular spot; marginal lunules black, much elongated; orbicular and reniform spots incompletely bordered with brown or black; orbicular with a black discal dot, nearly round, hardly half the size of the reniform, which is much excavated on its outer side. Hind wings cinereous; marginal lunules brown, elongated; ciliæ white. Length of the body 7 lines; of the wings 18 lines.

a. East Florida. Presented by E. Doubleday, Esq.

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ACRONYCTA MONSTRATA.

Cinerea; *alæ anticæ nigricante fusca, lituris tribus costalibus fasciisque latis canis, orbiculari et reniformi canis, orbiculari subrotunda, strigis marginalibus nigris*; *posticæ cinereæ, margine lato fuscescente, ciliis albidis.*

Cinereous. Fore wings blackish brown, with three hoary marks along the costa, and with broad irregular hoary bands; discal spots mostly hoary; orbicular almost round, about half the size of the reniform; marginal streaks black, ending in lunules. Hind

wings cinereous, with broad brownish borders; ciliæ whitish. Length of the body 6 lines; of the wings 16 lines.

a. ——— ?

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MYTHIMNA ROBUSTA.

Mas. *Testacea; thorax crassus; abdomen albido-testaceum; alæ anticæ gutta nigricante apud reniformis marginem, guttis sub-marginalibus nigricantibus minimis; posticæ albidæ, testaceo marginatæ.*

Male. Testaceous. Thorax very stout. Abdomen whitish testaceous. Fore wings with all the marks obsolete, except a minute blackish dot on the border of the reniform spot; blackish marginal dots very minute. Hind wings whitish, with testaceous borders. Length of the body 6 lines; of the wings 14 lines.

a. Moreton Bay. From Mr. Diggles' collection.

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LEUCANIA EXTRANEÆ.

hh. St. Domingo. From Mr. Tweedie's collection.

ii. Monte Video.

jj. Tasmania. Presented by Capt. J. C. Ross.

kk. Punjaub. Presented by General Hearsay.

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LEUCANIA EXTERIOR.

St. Domingo. From Mr. Tweedie's collection.

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LEUCANIA EXEMPTA.

Mas. *Pallide testacea; alæ anticæ apud costam nigro subconspersæ, vitta antica lata alba nigro uniguttata, macula exteriore cervina, guttis exterioribus et marginalibus nigris; posticæ albidæ, margine fuscescente, guttis marginalibus nigris.*

Male. Pale testaceous. Fore wings slightly speckled with black in front, with a white stripe, which extends along the costa

for more than half the length and for nearly half the breadth, contains a black dot, and joins a fawn-coloured spot at its tip; exterior and marginal dots black. Hind wings whitish, with brownish borders and black marginal dots. Length of the body 6 lines; of the wings 14 lines.

a. Ceylon. Presented by R. Templeton, Esq.

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LEUCANIA? CONVECTA.

Mas. *Testacea; abdomen pallide cinereum; alæ anticæ macula discali, guttis exterioribus et marginalibus nigris, macula antica cervina, orbiculari et reniformi obsoletis; posticæ cinereæ margine lato fuscescente, ciliis albidis.*

Male. Testaceous. Abdomen pale cinereous. Fore wings very slightly speckled with brown, with a double exterior row and with a marginal row of black dots; discal areolet having at its tip a black spot, in front of which there is an indistinct pale fawn-coloured spot; orbicular and reniform spots obsolete. Hind wings cinereous, with broad brown borders; ciliæ whitish. Length of the body 8 lines; of the wings 17 lines.

a. Moreton Bay. From Mr. Diggles' collection.

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Genus NONAGRIA.

Group 4.

Mas. *Corpus gracile. Proboscis brevis. Palpi oblique ascendentes; articulus 3us cylindricus, 2i quadrante non longior. Antennæ ciliatæ, corporis dimidio vix longiores. Abdomen alas posticas superans. Pedes mediocriter validi; tibiæ posticæ calcaribus quatuor longis. Alæ anticæ sat angustæ, apud costam rectæ, apice rotundatæ, margine exteriore mediocriter obliquo.*

Male. Body slender. Proboscis short. Palpi obliquely ascending; third joint cylindrical, about one-fourth of the length of the second. Antennæ ciliated, hardly more than half the length of the body. Abdomen extending somewhat beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Fore wings rather narrow, straight in front, rounded at the tips, moderately oblique along the exterior border.

This group has some resemblance to the *Pyralites*.

NONAGRIA ? DISCERPTA.

Mas. *Piceo-fusca* ; palpi, antennæ, abdomen et pedes albidotestacea ; alæ anticæ striga nigricante guttisque duabus nigris terminalibus discalibus, costa sat pallida, lunulis marginalibus nigricantibus ; posticæ albæ.

Male. Piceous-brown. Palpi, antennæ, abdomen and legs testaceous whitish. Fore wings with a blackish discal streak, which has a black dot at each end ; costa somewhat pale ; a row of blackish marginal lunules. Hind wings white. Length of the body 4 lines ; of the wings 10 lines.

a. Brazil. From Mr. Argent's collection.

Group ?

NONAGRIA INDUBITANS.

Mas. *Pallide cervina* ; frons fasciculata ; palpi oblique ascendentes ; articulus 2us 3o longi-conico quadruplo longior ; abdomen pallidum ; alæ anticæ fascia obscuriore lata indistincta antice abbreviata ramosque tres emittente, marginibus nigro-cinereis ; posticæ albæ.

Male. Pale fawn-colour. Head with a frontal tuft. Palpi obliquely ascending ; third joint elongate-conical, not more than one-fourth of the length of the second. Abdomen paler than the thorax. Fore wings with a broad indistinct darker band, which is shortened, and emits three branches in front ; interior border and exterior border blackish gray. Hind wings white. Length of the body $3\frac{1}{2}$ lines ; of the wings 8 lines.

a. Pará. From Mr. Johnson's collection.

NONAGRIA ? IRREGULARIS.

Fœm. *Cervina* ; palpi ascendentes ; articulus 3us conicus, 2i quadrante non longior ; abdomen pallidum ; alæ anticæ lineis duabus indistinctis guttularibus nigris, reniformi parva albida nigro marginata ; posticæ albidæ, margine pallide cervino.

Female. Fawn-colour. Palpi ascending ; third joint conical, not more than one-fourth of the length of the second. Abdomen pale. Fore wings with two indistinct lines of black dots, one interior, the other exterior ; reniform spot small, whitish, with a black

border. Hind wings whitish, pale fawn-colour along the border. Length of the body 5 lines; of the wings 12 lines.

a. Hindostan. From Archdeacon Clerk's collection.

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NONAGRIA? INTERLATA.

Fœm. *Pallide testacea, graciles; palpi ascendentes; thorax antice nigro fasciatus; alæ anticæ nigro ex parte conspersæ, striga brevi interrupta discali, venis guttisque marginalibus trigonis nigris, orbiculari et reniformi obsoletis; posticæ albido-testaceæ.*

Female. Pale testaceous, slender. Palpi ascending; third joint elongate-conical, more than one-fourth of the length of the second. Thorax with a black band in front. Fore wings slightly speckled with black between the veins, which are mostly black; two long discal streaks not flecked with black, the fore one containing a short interrupted black streak; marginal dots black, triangular; orbicular and reniform spots obsolete; exterior border hardly oblique. Hind wings whitish testaceous. Length of the body 5 lines; of the wings 12 lines.

a. Port Natal. From Dr. Krauss' collection.

3. NONAGRIA? INDIGENS.

Fœm. *Pallide cervina; abdomen pallide cinereum; palporum articulus 2us 3o cylindrico quadruplo longior; alæ anticæ mediocriter latæ, striga discali nigricante, orbiculari et reniformi parvis albo marginatis, linea exterior e guttis nigro-albis, guttis marginalibus nigris; posticæ albæ, linea marginali nigricante.*

Female. Pale fawn-colour. Abdomen pale cinereous. Third joint of the palpi cylindrical, not more than one-fourth of the length of the second. Fore wings moderately broad, with a blackish discal streak, which includes the orbicular and reniform spots,—these are small and bordered with white; an exterior transverse line of black and white dots, and a marginal row of black dots. Hind wings white, with a blackish marginal line. Length of the body 6 lines; of the wings 14 lines.

a. ———?

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Genus BIULA.

Fœm. Corpus vix robustum. Proboscis brevis. Palpi graciles, oblique ascendentes; articulus 3us cylindricus. Antennæ corporis diinidio paullo longiores. Abdomen alas posticas paullo superans. Tibiæ posticæ calcaribus longis? Alæ anticæ longiusculæ, mediocriter latæ, apud costam subrectæ, apice acutæ, margine exteriori perparum obliquo.

Female. Body hardly stout. Proboscis short. Palpi slender, obliquely ascending; third joint cylindrical. Antennæ a little more than half the length of the body. Abdomen extending a little beyond the hind wings. Hind tibiæ with long spurs? Fore wings rather long, moderately broad, nearly straight in front, acute at the tips, very slightly oblique along the exterior border.

1. BIULA LIGNILUTEA.

Fœm. Testacea; alæ anticæ rufescente-cervinæ, basi costaque testaceis fusco subconspersis, guttis paucis submarginalibus fuscis; posticæ testaceæ, nitentes.

Female. Testaceous. Fore wings reddish fawn-colour, testaceous and slightly speckled with brown at the base and along most of the costa; a few minute brown submarginal dots. Hind wings testaceous, shining. Length of the body 7 lines; of the wings 16 lines.

Java. In the East India Company's collection.

Genus CAPOTENA.

Fœm. Corpus robustum. Proboscis mediocriter longa. Palpi porrecti, caput paullo superantes; articulus 3us longi-conicus, 2i triente brevior. Thorax crassus. Abdomen alas posticas triente superans. Pedes mediocriter validi; tibiæ posticæ calcaribus longis. Alæ anticæ longiusculæ, sat angustæ, apud costam subconvexæ, apice acutæ, margine exteriori sat obliquo.

Female. Body stout. Proboscis moderately long. Palpi porrect, extending a little beyond the head; third joint elongate-conical, more than one-fourth of the length of the second. Thorax very robust. Abdomen extending for one-third of its length beyond

the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Fore wings rather long and narrow, slightly convex in front, acute at the tips, rather oblique along the exterior border.

1. CAPOTENA APRIFORMIS.

Fam. Ferruginea; abdomen cinereum; alæ anticæ pallide ferrugineæ, nigro conspersæ, guttis nonnullis vix conspicuis exterioribus nigricantibus; posticæ pallide cinereæ, costa ciliisque albidis.

Female. Ferruginous. Abdomen cinereous. Fore wings pale ferruginous, very minutely flecked with black, without marks, except an indistinct one at the tip of the discal areolet and some hardly visible exterior blackish dots. Hind wings pale cinereous; costa and ciliæ whitish. Length of the body 7 lines; of the wings 17 lines.

Java. In the East India Company's collection.

Fam. LEUCANIDÆ?

Genus MALLOMUS.

Corpus longiusculum, dense lanatum. Caput prominens. Proboscis elongata. Palpi recti, ultra clypeum assurgentes; articulus 2us cylindricus, hirtus; 3us vix brevior, ovatus, fere nudus. Antennæ setaceæ, medio paululum incrassatæ. Alæ oblongæ, integræ, late fimbriatæ.

Mallomus, *Blanch. Gay, Hist. Chile*, vii. 70.

1. MALLOMUS CILIATUS.

Totus pallide cinereus; thorax valde lanatus; alæ nitidæ, concolores, atomis adpersæ, paullo obscuriores, apices versus præsertim.

Mallomus ciliatus, *Blanch. Gay, Hist. Chile*, vii. 71, 1. *Atlas, Zool. Ent. Lep.* pl. 6, f. 5.

Coquimbo.

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GORTYNA FLAVAGO.

r. Orilla, West Canada. From Mr. Bush's collection.

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GORTYNA DITISSIMA.

Fœm. *Fusca*; *palpi validi, oblique ascendentes, articulo 3o minimo*; *thoracis latera inter alas purpurascente rufa*; *abdomen cinereum*; *alæ anticæ rufo-ochraceæ, flavo conspersæ, apices versus nigricante cinereæ, lineis nigricantibus subundulatis, orbiculari parva transversa subovata, reniformi arctata niveo marginata*; *posticæ cinereæ, margine lato fuscescente.*

Female. Brown. Palpi stout, obliquely ascending; third joint very minute, not more than one-sixth of the length of the second. Thorax purplish red on each side between the wings. Abdomen cinereous. Fore wings bright reddish orange, partly and irregularly flecked with yellow; apical part mostly blackish cinereous; transverse lines blackish, slight, undulating; orbicular spot transverse, nearly oval, not one-fourth of the size of the reniform, which is excavated on both sides in the middle, and is mostly bordered with snow-white. Hind wings cinereous, with broad brownish borders. Length of the body 8 lines; of the wings 18 lines.

a. Mexico. From M. Sallé's collection.

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HYDRÆCIA NICTITANS.

ii. New York. Presented by E. Doubleday, Esq.

jj, kk. Europe. From M. Becker's collection.

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HYDRÆCIA CUPREA.

Var.? *Cervina*; *alæ anticæ disco ex parte lineaque submarginali ferrugineis, maculis discalibus fasciisque exterioribus albido-cervinis.*

Fawn-colour. Fore wings with part of the disk and the submarginal line ferruginous; discal spots and exterior bands whitish fawn-colour.

e. Europe. From M. Becker's collection.

f. Lapland. Presented by J. R. Crowe, Esq.

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HYDRÆCIA STRAMENTOSA.

- b. New York. Presented by E. Doubleday, Esq.
 c. Illinois. Presented by E. Doubleday, Esq.

HYDRÆCIA SALICARUM.

Mas. *Ferruginea*; palpi *ascendentes, articulo 2o valido, 3o gracili, thorax antice cristatus*; abdomen *subcinereum*; alæ *anticæ nitentes fasciis tribus obscurioribus, 3a marginali intus pallido marginata, costa apud apicem pallido guttata, maculis nigro marginatis, orbiculari transversa subelliptica, reniformi extus subexcavata.*

Noctua Salicarium, Barnston, MSS.

Male. Ferruginous. Palpi ascending; second joint stout, third slender, not one-fourth of the length of the second. Thorax crested in front. Abdomen somewhat cinereous. Fore wings shining, with two darker bands, the one exterior, the other marginal and with a pale border on the inner side; the other transverse lines indistinct; costa with some pale dots towards the tip; discal spots bordered with black; orbicular transverse, almost elliptical, much smaller than the reniform, which is slightly excavated on the exterior side. Length of the body 5—6 lines; of the wings 13—15 lines.

a—d. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

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NEPHELODES MINIANS.

- h. New York. Presented by E. Doubleday, Esq.

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AXYLIA INTENDENS.

Testacea; alæ *anticæ ex parte ferruginæ, fusco conspersæ, costa margineque exteriore ex maxima parte fuscis, lineis transversis duplicatis indistinctis fuscis, orbiculari et reniformi nigro albidoque marginatis, orbiculari subrotunda; posticæ albidæ.*

Testaceous. Fore wings partly ferruginous, with brown specks, nearly wholly brown towards the costa and along the exterior

border, except at the tips; transverse lines brown, double, indistinct; orbicular and reniform spots with black and whitish borders, the latter colour most prevalent on the orbicular, which is nearly round and more than half the size of the reniform. Hind wings whitish. Length of the body 5 lines; of the wings 12 lines.

a. Cape. From M. Dregé's collection.

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XYLOPHASIA HEPATICA.

s. Gibraltar. From Mr. Milne's collection.

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XYLOPHASIA ARCUATA.

Mas. *Ferruginea; palpi oblique ascendentes, articulo 3o lanceolato longiusculo; abdomen cinereum; alæ anticæ nigro conspersæ, costa subconvexa, fasciis testaceis undulatis aut angulosis nigro marginatis, orbiculari et reniformi nigro marginatis, orbiculari oblonga subelliptica, reniformis disco pallide luteo; posticæ cinereæ, margine latissimo, linea stigmæque fuscis.*

Male. Ferruginous. Palpi obliquely ascending; third joint lanceolate, full one-third of the length of the second. Antennæ simple. Abdomen cinereous. Fore wings speckled with black; costa slightly convex; bands testaceous, undulating or zigzag, bordered with black; marginal lunules black, almost linear; orbicular and reniform spots with black borders; orbicular oblong, almost elliptical, much smaller than the reniform, which is slightly excavated on the outer side, and has a pale luteous disk. Hind wings cinereous, with very broad brown borders; discal line and stigma also brown; ciliæ, as in the fore wings, interlined with testaceous. Length of the body 7 lines; of the wings 16 lines.

a. East Florida. Presented by E. Doubleday, Esq.

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LAPHYGMA VITRINA.

Mas et fœm. *Albida; abdomen cinereum, segmentis albido marginatis; alæ anticæ cinereo conspersæ, apud marginem exteriorem fuscæ, punctis exterioribus strigisque marginalibus nigris; posticæ albæ.* Mas.—*Alæ posticæ subhyalinæ, margine fuscæ.* Fœm.—*Alæ anticæ linea discali angulata nigra; posticæ margine lato fuscæ.*

Male and female. Whitish. Abdomen above cinereous, with a white band on the hind border of each segment. Fore wings with minute cinereous speckles tinged with brown towards the exterior border, with an exterior line of black points, and with black marginal streaks. Hind wings white. *Male*.—Hind wings nearly hyaline, their tips and the tips of some of the veins on the exterior border tinged with brown. *Female*.—Hind wings very slightly hyaline, with broad brownish borders; veins dark brown towards the tips. Fore wings with a black angular discal line. Length of the body $4\frac{1}{2}$ —5 lines; of the wings 11—12 lines.

a—d. St. Domingo. From Mr. Tweedie's collection.

LAPHYGMA FILIFERA.

Mas. *Cana; palpi fulvi; thorax nigro conspersus, fasciis duabus anticis cervinis; alæ anticæ lineis duabus interioribus unaque exteriore abbreviata angulosis nigris, linea submarginali e guttis nigris indistinctis, guttis marginalibus nigris elongatis, orbiculari obsoleta, reniformi subrotunda fusco pupillata nigro marginata; posticæ albæ, iridescentes, semihyalinæ.*

Male. Hoary. Proboscis and palpi fawn-colour. Thorax speckled with black, with two slight fawn-coloured bands in front. Fore wings with two interior and one exterior angulose black lines, the latter obsolete towards the interior border; submarginal line represented by indistinct black dots; marginal dots black, elongated; orbicular spot obsolete; reniform nearly round, with a brown centre and a black border. Hind wings white, iridescent, semihyaline. Length of the body $6\frac{1}{2}$ lines; of the wings 13 lines.

a. St. Domingo. From Mr. Tweedie's collection.

LAPHYGMA ORBICULARIS.

Mas. *Cana, vix subtestacea; thorax fascia antica interrupta nigra; tarsi nigro fasciati; alæ anticæ striga basali, macula rotunda discali guttisque exterioribus et marginalibus nigris, strigis nonnullis lanceolatis cervinis; posticæ albæ, guttis marginalibus nigricantibus.* Var. β .—*Alæ anticæ strigis diffusis fuscescentibus.*

Male. Hoary, with a very slight testaceous tinge. Thorax with a slender interrupted black band in front. Tarsi with black

bands. Fore wings with a slender black streak at the base, with a round black discal spot, and with two rows of black dots, the one exterior, the other marginal; some fawn-coloured lanceolate streaks between the rows. Hind wings white, with a few minute blackish marginal dots. *Var. β.*—Fore wings with several diffuse brownish streaks. Length of the body 6 lines; of the wings 14 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.

LAPHYGMA FERROCANA.

Fœm. *Cana; alæ anticæ sat angustæ, apud costam subconvexæ, lituris costalibus, lineis transversis angulosis guttisque marginalibus nigris, orbiculari obsoleta, reniformi nigro marginata, linea submarginali fusca indistincta angulosa cano marginata; posticæ æneo-fuscæ, ciliis cinereis.*

Female. Hoary. Fore wings rather narrow, slightly convex in front, with black marks in front, with black angulose transverse lines, and with black marginal dots; orbicular spot obsolete; reniform with an angulose black border; submarginal line indistinct, brown, angular, with a hoary border on each side. Hind wings æneous-brown; ciliæ cinereous. Length of the body 4 lines; of the wings 10 lines.

a. Jamaica. From Mr. Gosse's collection.

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LAPHYGMA TERENS.

Fœm. *Cinerea; abdomen albidum; alæ anticæ margine exteriori maculaque reniformi ex parte nigricantibus, hac indistincta, orbiculari obsoleta, venis apice nigris; posticæ albæ, semihyalinæ iridescentes, apice fuscæ.*

Female. Pale cinereous. Palpi porrect; third joint about one-third of the length of the second. Abdomen whitish. Fore wings partly blackish along the exterior border and on the reniform spot, which is indistinct; orbicular spot obsolete; veins black towards their tips. Hind wings white, semihyaline, iridescent, brown at the tips. Length of the body 4 lines; of the wings 10 lines.

a. Venezuela. From Mr. Dyson's collection.

LAPHYGMA TRIPLEX.

Mas. *Albido-testacea, iridescent; abdomen albidum; alæ anticæ latiusculæ, margine exteriorē vix obliquo, lituris valde indistinctis, orbiculari obsoleta, reniformi ex parte guttisque exterioribus fuscis, guttis marginalibus nigris; posticæ albæ, semihyalinæ.*

Male. Whitish testaceous, iridescent. Abdomen whitish. Fore wings rather broad, hardly oblique along the exterior border; all the marks very indistinct; orbicular spot obsolete; reniform partly brown; an exterior row of brown dots; marginal dots black. Hind wings white, iridescent, semihyaline. Length of the body 4 lines; of the wings 10 lines.

a. Honduras. From Mr. Dyson's collection.

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LAPHYGMA PROCEDENS.

Mas. *Testacea; antennæ subciliatæ; alæ anticæ lineis transversis duplicatis angulosis nigricantibus, margine exteriorē subfuscescente, lunulis marginalibus maculaque reniformi nigris, orbiculari subobsoleta; posticæ albæ, semihyalinæ.*

Male. Testaceous. Antennæ minutely ciliated. Fore wings with the transverse lines blackish, slender, zigzag, double; a brownish tinge along the exterior border; marginal lunules black; orbicular spot almost obsolete; reniform mostly black. Hind wings white, semihyaline. Length of the body $4\frac{1}{2}$ lines; of the wings 11 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

LAPHYGMA? PUNCTIFINIS.

Mas. *Pallide cervina; palporum articulus 3us cylindricus, 2i triente non brevior; antennæ vix serratæ; alæ anticæ nigro subconspersæ, striga discali nigricante guttisque duabus terminalibus nigris, reniformi parva albida, linea exteriorē indistincta e guttis paucis nigricantibus, lunulis marginalibus nigricantibus; posticæ albæ, linea marginali pallide fusca.*

Male. Pale fawn-colour. Third joint of the palpi cylindrical, full one-third of the length of the second. Antennæ hardly serrated. Fore wings with minute blackish speckles, and with a blackish discal streak, which has at each end a black dot, and includes the

reniform spot, which is small and whitish; an indistinct exterior line composed of a few blackish dots, and with blackish marginal lunules. Hind wings white, with a pale brown marginal line. Length of the body 5 lines; of the wings 12 lines.

a. ———?

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PRODENIA COMMELINÆ.

k, l. St. Domingo. From Mr. Tweedie's collection.

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PRODENIA SIGNIFERA.

e. St. Domingo. From Mr. Tweedie's collection.

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PRODENIA VARIOLOSA.

Mas. *Pallide testacea; palpi fusco fasciati; tarsi nigro guttati; alæ anticæ cervinæ, plaga magna subquadrata strigaeque obliqua lata testaceis, fascia interiore cinerea, fascia exteriore latiore albida maculam fuscam includente intus cinereo nebulosa, linea mediana fusca duplicata undulata, lituris costalibus et basalibus nigris albidisque, reniformi nigro ex parte marginata, linea submarginali lunulisque marginalibus nigris; posticæ albæ, margine angusto fusco.*

Male. Pale testaceous. Palpi with a brown band. Tarsi with a black dot on each joint. Fore wings mostly fawn-coloured; a large subquadrate pale testaceous patch extending from the middle of the interior border to the reniform spot, communicating with a paler testaceous broad oblique streak, which cuts off part of the orbicular spot; an interior gray band, and a broader exterior whitish band, which includes a brown spot, and is shaded with gray on the inner side, where it joins the double undulating brown median line; some black and whitish marks along the costa and near the base; reniform spot partly bordered with black; submarginal line black, very slight; marginal lunules black. Hind wings white, with a very slender brown border; veins brown towards the tips. Length of the body 7—8 lines; of the wings 14—16 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.

c. St. Domingo. From Mr. Stevens' collection.

PRODENIA MARMOREA.

Cervina ; thorax nigro-bivittatus ; alæ anticæ nigro variæ ; lituris basalibus unaque discali, striga posteriore fasciæque exteriori albidis ; posticæ albæ, venis apud margines margineque antico cinereis.

Phalæna-Noctua Marmorea, *Anon. Ins. Surinam*, ii. 109, pl. 51.
Surinam.

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PRODENIA GLAUCISTRIGA.

e. Moreton Bay. From Mr. Diggles' collection.

PRODENIA DECLINATA.

Mas. Pallide testacea ; thorax cervino fasciatus ; abdomen albidum ; alæ anticæ angustæ, cervino subnebulosæ, lineis pallidis indistinctis nigro ex parte marginatis, fasciæ antica lata obliqua albida, fasciæ apicali lata obliqua albido-purpurascente, strigis submarginalibus fuscis ; posticæ albæ, semihyalinæ, margine perangusto fusco.

Male. Pale testaceous. Thorax with a dull pale fawn-coloured band. Abdomen whitish. Fore wings narrow, slightly clouded with dull pale fawn-colour; transverse lines pale, indistinct, partly bordered with black; an oblique broad whitish band in front hiding the orbicular spot and contiguous to the reniform one, which is large, distinct, and much excavated on the exterior side; a lilac-white broad oblique apical band, which extends over some of the submarginal brown streaks. Hind wings white, iridescent, semihyaline, with very narrow brown borders. Length of the body 5 lines; of the wings 12 lines.

a. Hindostan. From Archdeacon Clerk's collection.

PRODENIA PERMUNDA.

Fœm. Obscure cinerea ; thorax nigro conspersus ; abdomen canum ; alæ anticæ lineis transversis angulosis, strigis exterioribus guttisque marginalibus nigris, lineæ submarginali angulosa albida, orbiculari subcinerea, reniformi atra, albido ex parte marginata ; posticæ albæ, margine angusto venisque fuscis.

Female. Dark cinereous. Thorax speckled with black. Abdomen hoary. Fore wings with the transverse lines black, angulose; some exterior black streaks; submarginal line angulose, whitish; marginal dots black; orbicular spot slightly pale greenish, with a white mark between it and the reniform, which is deep black and partly bordered with white. Hind wings white, with narrow brown borders and brown veins. Length of the body $7\frac{1}{2}$ lines; of the wings 15 lines.

a. Siam. Presented by J. C. Bowring, Esq.

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PRODENIA BIPARS.

Mas. *Nigricante-cinerea; abdomen canum; alæ anticæ lituris basalibus, lineis medianis angulosis, strigis exterioribus lunulisque marginalibus atris, orbiculari obliqua fuscescente atro marginata, reniformi cana, disco nigro, margine atro; posticæ albæ, margine perangusto fusco.*

Male. Blackish cinereous. Abdomen hoary. Fore wings with some basal marks, the zigzag median lines, a few exterior streaks, and the marginal lunules deep black; orbicular spot oblique, brownish, with a deep black border; reniform hoary, with a black disk and a deep black border. Hind wings white, with a very narrow brown border; veins brown towards the tips. Length of the body $7\frac{1}{2}$ lines; of the wings 15 lines.

a. Moreton Bay. From Mr. Diggles' collection.

Genus ISCADIA.

Mas. Corpus vix robustum. Proboscis brevis. Palpi breves. Antennæ simplices. Abdomen alas posticas vix superans. Pedes sat validi; tibiæ posticæ calcaribus longis? Alæ anticæ angustæ, apud costam subconvexæ, apice rotundatæ, margine exteriore antice non obliquo postice proobliquo

Male. Body hardly stout. Proboscis and palpi short. Antennæ simple, hardly half the length of the body? Abdomen hardly extending beyond the hind wings. Legs moderately stout; hind tibiæ with long spurs? Fore wings narrow, slightly convex in front, rounded at the tips, not oblique along the fore half of the exterior border, but very oblique along the hind half. Hind wings rather broad.

1. ISCADIA APERTA.

Mas. *Cana; antennæ luteæ; alæ anticæ ex parte subglaucescentes, lineis quatuor angustis nigris, 1a basali, 2a interiore, 3a furcata, furca exteriori lineaque 4a connexis, linea submarginali albida angulosa, linea marginali nigra, orbiculari ex parte cervina, reniformi nigro pupillata; posticæ albæ, semihyalinæ, fusco ex parte marginatæ.*

Male. Hoary. Antennæ luteous. Fore wings slightly and partly glaucous, with four slender black transverse lines; first line basal; second interior; third divided in front of the reniform spot, the inner branch extending to the interior border, the outer branch extending to a little beyond half the breadth of the wings, where it turns outward and joins the fourth, which is very irregular, and approaches very close to the second on the costa; submarginal line whitish, angulose marginal dots forming an uninterrupted black line; orbicular spot partly fawn-colour, very much smaller than the reniform, which has a black centre. Hind wings white, semihyaline, partly and slightly bordered with brown. Length of the body 6 lines; of the wings 16 lines.

a. St. Domingo. From Mr. Tweedie's collection.

Genus OLYCA.

Mas. *Corpus vix robustum. Proboscis brevis. Palpi porrecti, caput superantes; articulus 2us longus, validus; 3us conicus, minimus. Antennæ subciliatæ, corporis dimidio multo longiores. Abdomen alas posticas triente superans. Pedes longi, sat validi, non pilosi; tibiæ posticæ calcaribus longis. Alæ anticæ angustæ, apud costam rectæ, apice rotundatæ, margine exteriori vix obliquo.*

Male. Body hardly stout. Proboscis short. Palpi porrect, extending somewhat beyond the head; second joint long, stout; third conical, very minute. Antennæ very minutely ciliated, much more than half the length of the body. Abdomen extending for one-third of its length beyond the hind wings. Legs long, rather stout, not pilose; hind tibiæ with long spurs. Fore wings narrow, straight in front, rounded at the tips, very slightly oblique along the exterior border. Hind wings rather narrow. Wings with broad ciliæ.

1. OLYCA PHRYGANOIDES.

Mas. *Cana*; *palpi ex parte nigri*; *thorax et abdomen basi vittis duabus lateralibus nigris*; *alæ anticæ nigro conspersæ et substrigatæ, roseo tinctæ, guttis marginalibus nigris*; *posticæ albæ, fusco vix marginatæ*.

Male. Hoary. Palpi partly black. Thorax with two broad black lateral stripes, which are continued over the basal part of the abdomen. Fore wings speckled and irregularly streaked with black, tinged with pale rose-colour; marginal dots black. Hind wings white, hardly bordered with brown. Length of the body $6\frac{1}{2}$ —7 lines; of the wings 16—17 lines.

a—c. St. Domingo. From Mr. Tweedie's collection.

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CRYMODES FRIGIDA??

a, b. Lapland. Presented by J. R. Crowe, Esq.

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MAMESTRA ADJUNCTA.

Var. *Olivaceo-cinerea*; *abdomen cinereum*; *alæ anticæ lineis undulatis nigris albo ex parte marginatis, claviformi, orbiculari et reniformi magnis albis nigro marginatis, ciliis albido strigatis*; *posticæ albæ, linea apud angulum interiorem brevi fusca*.

Olive-cinereous. Abdomen cinereous. Fore wings with the black lines undulating, partly bordered with white; claviform, orbicular and reniform spots large, white, with black borders; ciliæ with whitish streaks. Hind wings white, with a short brown line near the interior angle. Length of the body 6 lines; of the wings 16 lines.

c. ——— ?

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MAMESTRA ALBIFLEXURA.

Mas. *Cervina*; *abdomen cinereum*; *alæ anticæ breviusculæ latiusculæ, lineis testaceis subundulatis nigro marginatis, strigis nigris e linea submarginali pallida interruptis, guttis marginalibus nigris, orbiculari et reniformi indeterminatis, hac extus albo notata*; *posticæ cinereæ, margine lato æneo, lunulis marginalibus fuscis*.

Male. Fawn-colour. Abdomen cinereous. Fore wings rather short and broad, with the transverse lines testaceous, slightly undulating, bordered with black; a row of black streaks interrupted by the submarginal line, which is paler, more straight, and more distinct than the others; marginal dots black; orbicular and reniform spots indefinite, the latter with an angular white mark on its exterior side. Hind wings cinereous, with broad æneous borders and brown marginal lunules. Length of the body 7 lines; of the wings 15 lines.

a. Hindostan. From Mr. Argent's collection.

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MAMESTRA INSIGNATA.

Fœm. *Nigra*; *palpi ascendentes, articulo 3o longi-conico*; *abdomen cinereum, cristatum*; *alæ anticæ lineis atris undulatis indistinctis, orbiculari magna subovata subobliqua, reniformi testaceo maculata*; *posticæ cinereæ, margine latissimo fusco.*

Female. Black. Palpi ascending; third joint elongate-conical, not more than one-fourth of the length of the second. Abdomen cinereous, crested. Fore wings with the transverse lines deep black, undulating, indistinct, as are also the borders of the discal spots; orbicular spot large, oblong, slightly oblique, nearly oval; reniform with a testaceous spot in its disk. Hind wings cinereous, with very broad brown borders. Length of the body $5\frac{1}{2}$ lines; of the wings 14 lines.

a. Moreton Bay. From Mr. Diggles' collection.

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DASYGASTER HOLLANDIÆ.

a. Moreton Bay. From Mr. Diggles' collection.

DASYGASTER LEUCANIoidES.

- b. Tasmania. Presented by Morton Allport, Esq.
- c. Tasmania. From Mr. A. J. Smith's collection.
- d. Australia. Presented by Major-Gen. Hardwicke.
- e. Tasmania. Presented by J. G. Children, Esq.

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APAMEA FINITIMA.

Var. *Cana*; *caput supra ferrugineum*; *palpi vix ascendentes, caput paullo superantes*; *articulus 3us minimus*; *thorax linea transversa undulata nigra fasciaeque ferruginea*; *alæ anticæ apud costam ferrugineæ, lineis nigris undulatis valde incompletis, submarginali albida intus fusco marginata, fascia marginali subferruginea, lunulis marginalibus fuscis, maculis ex parte nigro marginatis, orbiculari albida obliqua, reniformi ferruginea testaceo notata extus valde excavata*; *posticæ albidocinereæ, macula discali fusca, margine lato cupreo-fusco.*

Hoary. Head ferruginous above. Palpi hardly ascending, extending a little beyond the head; third joint very small, not one-fourth of the length of the second. Thorax with a transverse undulating black line, behind which there is a ferruginous band; some black flecks behind the latter. Fore wings irregularly ferruginous in front; lines black, undulating, very incomplete; submarginal line whitish, bordered with brown on the inner side, and with a slightly ferruginous space between it and the exterior border, which has brown lunules; orbicular and reniform spots partly bordered with black; orbicular whitish, oblique; reniform ferruginous, with a testaceous mark, much excavated on its outer side; claviform mostly black. Hind wings whitish cinereous, with a brown discal spot, and a broad cupreous-brown border; ciliæ whitish. Length of the body 6 lines; of the wings 12—14 lines.

a—c. Nova Scotia. From Lieut. Redman's collection.

d. Orilla, West Canada. From Mr. Bush's collection.

e. New York. Presented by E. Doubleday, Esq.

APAMEA IASPIS.

b, c. New York. Presented by E. Doubleday, Esq.

APAMEA DEMISSA.

Mas. *Cana*; *abdomen cinerascens*; *alæ anticæ basi costaque nigro conspersis, lineis nigris undulatis incompletis, submarginali angulosa, maculis nigro ex parte marginatis, orbiculari alba obliqua maxima, lunulis marginalibus nigris*; *posticæ cinereæ, macula lineaque obscurioribus.*

Male. Hoary. Abdomen somewhat cinereous. Fore wings irregularly speckled with black towards the base and along the costa; transverse lines black, undulating, very slight and incomplete; submarginal line zigzag; a brownish space between it and the black marginal lunules, which are much elongated; spots with incomplete black borders; orbicular spot white, oblique, very large, nearly contiguous to the reniform, which is still larger and but slightly excavated on its exterior side. Hind wings cinereous; disk with a darker spot and a darker line, which are hardly visible above. Length of the body 6 lines; of the wings 16 lines.

a. Orilla, West Canada. From Mr. Bush's collection.

APAMEA ? INSIGNATA.

Fœm. *Fusca; abdomen cinereum; alæ anticæ æneo-fusæ, lineis nigris undulatis indistinctis, orbiculari parva, reniformi albo marginata; posticæ subæneæ, basi ciliisque canis.*

Female. Brown. Abdomen cinereous. Fore wings æneous-brown, with the transverse lines black, undulating, indistinct; orbicular spot small, very remote from the reniform; the latter has a white border, which is broadest and most distinct on the hinder part. Hind wings somewhat æneous, hoary towards the base, and with hoary ciliæ. Length of the body 5 lines; of the wings 12 lines.

a. United States. Presented by E. Doubleday, Esq.

APAMEA REMISSA.

Fœm. *Cinereo-cervina; caput et thorax nigro fasciata; palporum articulus 3us lanceolatus; alæ anticæ nigro conspersæ, lineis nigris duplicatis indistinctis, extus nigro-fusæ, linea submarginali angulosa cervina, orbiculari et reniformi albidis, reniformi subrotunda; posticæ cinereæ, margine fuscescente, linea marginali nigra, ciliis albido-testaceis.*

Female. Cinereous fawn-colour. Head and thorax with black bands. Third joint of the palpi lanceolate, about one-third of the length of the second. Abdomen cinereous. Fore wings especially speckled with black towards the costa; transverse lines black, double, undulating, indistinct; space beyond the reniform spot mostly blackish brown, traversed by the zigzag fawn-coloured submarginal line; orbicular and reniform spots mostly whitish, the former smaller than the latter, which is nearly round. Hind wings

cinereous, brownish towards the border, where there is a black line ; ciliæ whitish testaceous. Length of the body 6 lines ; of the wings 14 lines.

a. New York. Presented by E. Doubleday, Esq.

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APAMEA INQUIETA.

Mas. *Cinereo-fusca ; abdomen cinereum ; alæ anticæ lineis nigricantibus undulatis indistinctis pallido marginatis, linea submarginali pallida angulosa, orbiculari et reniformi subobsoletis ; posticæ subæneo-cinereæ.*

Male. Cinereous-brown. Abdomen cinereous. Fore wings with the transverse lines blackish, undulating, very slight and indistinct, with pale borders ; submarginal line pale, zigzag ; orbicular and reniform spots almost obsolete ; under side with a black discal spot. Hind wings cinereous, with an æneous tinge. Length of the body $5\frac{1}{2}$ lines ; of the wings 14 lines.

a. ——— ? From Mr. Milne's collection.

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MIANA VINCTA.

Cervina ; thorax fasciis nigricantibus ; alæ anticæ lineis nigris undulatis incompletis, linea exteriore distincta subrecta, macula guttisque costalibus albis, macula apicali testacea, guttis marginalibus minimis testaceis nigrisque, orbiculari oblonga elliptica, reniformi angusta, striga discali nigra interrupta ; margine exteriore nigro-cinereo ; posticæ albæ, margine fuscescente.

Fawn-colour. Thorax with blackish bands. Fore wings with the transverse lines black, undulating, very incomplete ; a more distinct and almost straight line touching the exterior side of the reniform spot, and extending to a white costal spot, between which and the testaceous apical spot there are two or three white dots ; marginal dots testaceous and black, very minute ; orbicular spot oblong, elliptical ; reniform narrow, interrupting a black discal streak ; a blackish gray tinge along the exterior border. Hind wings white, with a brownish border. Length of the body 4 lines ; of the wings 12 lines.

a. East Florida. Presented by E. Doubleday, Esq.

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CELÆNA HERBIMACULA.

n. Orilla, West Canada. From Mr. Bush's collection.

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CELÆNA ? IRRESOLUTA.

Pallide testacea; thorax fusco fasciatus; alæ anticæ cinereo-fusæ, maculis distinctis nigro marginatis, orbiculari fusiformi oblonga, reniformi obliqua lineari, striga discali interrupta nigricante, linea transversa exterior pallida subundulata nigro marginata, maculo apicali testacea; posticæ albæ, margine subfuscescente.

Pale testaceous. Thorax with a brown band in front. Fore wings mostly cinereous-brown; claviform, orbicular and reniform spots distinct, with black borders; orbicular fusiform, oblong; reniform oblique, linear, rounded at each end, interrupting a short blackish streak; a pale black-bordered slightly undulating exterior transverse line contiguous to the hind end of the reniform spot, and a testaceous apical spot; submarginal line indistinct. Hind wings white, with a slightly brownish border. Length of the body 4 lines; of the wings 9 lines.

a. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

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CELÆNA DELIRIOSA.

Fœm. Albida; alæ anticæ ex parte cinereæ, linea basali undulata incompleta, linea interiore, linea exterior undulata fasciæque antica brevi arcuata nigris, orbiculari et reniformi fusco marginatis, illa rotunda; posticæ subæneo marginatæ.

Female. Whitish. Fore wings partly cinereous, with an undulating incomplete black line near the base; a second line, slight but complete, near the orbicular spot; a third much more undulating, beyond the reniform spot; a slightly curved black band between the orbicular and reniform spots, and contiguous to the latter; orbicular and reniform spots with brown borders, the former round, and about half the size of the latter. Hind wings with slightly æneous borders. Length of the body 5 lines; of the wings 12 lines.

a. St. Domingo. From Mr. Tweedie's collection.

CELÆNA INCLINATA.

Mas. *Cervina*; *antennæ subserratae*; *abdomen cinereum*; *alæ anticæ lineis nigricantibus undulatis diffusis indistinctis*, *costa albo guttata*, *venis apices versus nigro marginatis*, *orbiculari et reniformi albo notatis*; *posticæ æneo-fuscae*, *basi margineque interiore canis*, *ciliis albidis*.

Male. Fawn-colour. Third joint of the palpi about one-third of the length of the second. *Antennæ* minutely serrated. Abdomen cinereous. Fore wings with the transverse lines blackish, undulating, diffuse and indistinct; costa with white dots; veins bordered with black towards their tips; orbicular spot with a white mark on its outer side; reniform partly white. Hind wings æneous-brown, hoary at the base and along the interior border; ciliæ whitish. Length of the body 5 lines; of the wings 12 lines.

a. St. Domingo. From Mr. Tweedie's collection.

CELÆNA SEMIFURCA.

Mas. *Fuscescente-cervina*, *nigro conspersa*; *abdomen cinereum*; *alæ anticæ lineis nigris variis*, *submarginali lata undulata*, *orbiculari et reniformi albo ex parte marginatis*, *reniformi albo pupillata guttis exterioribus albis*; *posticæ æneo-fuscae*, *basi margineque interiore canis*, *ciliis cano marginatis*.

Male. Brownish fawn-colour. Thorax and fore wings speckled with black. Abdomen cinereous. Fore wings with the transverse lines black, various; submarginal line broad, undulating; orbicular and reniform spots with the borders partly white; reniform with a white disk, which is slightly furcate on its exterior side, near which there is a row of white dots. Hind wings æneous-brown, hoary at the base and along the interior border; ciliæ with hoary tips. Length of the body 5 lines; of the wings 12 lines.

a. St. Domingo. From Mr. Tweedie's collection.

CELÆNA PROLIFERA.

Mas. *Cinereo-fusca*; *palporum articulus 3us elongatus*; *alæ anticæ lituris costalibus albidis*, *venis albo conspersis*, *linea submarginali albida angulosa incompleta*, *ciliis albido strigatis*, *orbiculari et reniformi albido marginatis*, *hac albo notatu*; *posticæ æneo-fuscae*, *basi canæ*, *ciliis albidis*.

Male. Cinereous-brown. Third joint of the palpi half the length of the second. Abdomen cinereous. Fore wings with some whitish marks along the costa, and with white specks on the veins; submarginal line whitish, zigzag, very incomplete; ciliæ with whitish streaks; orbicular and reniform spots with whitish borders; reniform with a white discal spot, which is accompanied by a white dot on the exterior side. Hind wings æneous-brown, hoary towards the base; ciliæ whitish. Length of the body 5 lines; of the wings 12 lines.

a. St. Domingo. From Mr. Tweedie's collection.

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CELÆNA CONFINIS.

Mas. *Ferrugineo-fusca*; *palporum articulus 3us brevis*; *abdomen cinereum*; *alæ anticæ lineis nigris undulatis indistinctis, orbiculari et reniformi ex parte albis*; *posticæ cinereæ, margine exteriore subæneo.*

Male. Ferruginous-brown. Third joint of the palpi not more than one-fourth of the length of the second. Abdomen cinereous. Fore wings with the transverse lines black, undulating, slight and indistinct; orbicular and reniform spots partly white. Hind wings cinereous, somewhat æneous along the exterior border. Length of the body 5 lines; of the wings 12 lines.

a. Moreton Bay. From Mr. Diggles' collection.

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PERIGEA? INDECISA.

Fœm. *Testacea*; *abdomen cinereum*; *alæ anticæ nigro subconspersæ, maculis lineisque subobsoletis, venis exterioribus nigro duplici serie guttatis*; *posticæ pallide cinereæ, marginibus latis fuscis, ciliis albidis.*

Female. Testaceous. Abdomen cinereous. Fore wings slightly speckled with black; the usual lines and spots almost obsolete; a double exterior row of blackish dots on the veins. Hind wings pale cinereous, with broad brown borders and whitish ciliæ. Length of the body 6 lines; of the wings 14 lines.

a. Jamaica. From Mr. Gosse's collection.

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PERIGEA CENTRALIS.

Mas. *Pallide cervina; abdomen pallide testaceum; alæ anticæ cervinæ, apud discum subferruginæ, maculis vix determinatis ex parte albidis cinerascente marginatis, costa margineque exteriore albido punctatis; posticæ canæ, subcænæ, ciliis albidis.*

Male. Pale fawn-colour. Abdomen pale testaceous. Fore wings fawn-colour, somewhat ferruginous in the disk, grayish about the discal spots, which are undefined and partly whitish; costa and exterior border with minute whitish dots. Hind wings hoary, with an æneous tinge, which is most prevalent about the exterior border; ciliæ whitish. Length of the body $5\frac{1}{2}$ lines; of the wings 14 lines.

a. ———? Presented by J. G. Children, Esq.

PERIGEA PUNCTOSA.

Mas. *Ferruginea; abdomen pallide cinereum; alæ anticæ lituris costalibus albidis, lineis pallide testaceis indistinctis, guttis discalibus et marginalibus albidis, orbiculari indistincta, reniformi albo pupillata; posticæ cinereæ, margine latissimo æneo, ciliis albidis.*

Male. Ferruginous. Abdomen pale cinereous. Fore wings with white marks along the costa, with the transverse lines pale testaceous, very indistinct, generally accompanied by whitish dots; marginal dots whitish, very minute; orbicular spot indistinct; reniform with a white disk. Hind wings cinereous, with very broad æneous borders; ciliæ whitish. Length of the body 6 lines; of the wings 14 lines.

a. ———? Presented by J. G. Children, Esq.

PERIGEA? CONSTIPATA.

Fœm. *Cervina; alæ anticæ lineis transversis albis inæqualibus, linea marginali obscure fusca strigis albis interrupta, lituris costalibus albis, orbiculari et reniformi albo marginatis, illa maxima informi; posticæ pallide cervinæ, basi albidæ.*

Female. Fawn-colour. Abdomen hardly paler than the thorax. Fore wings with irregular transverse white lines, and with a dark brown marginal line, which is interrupted by white streaks; some white marks along the costa; orbicular and reniform spots

with white borders, the former very large, irregular in outline. Hind wings pale fawn-colour, whitish towards the base. Length of the body 5 lines; of the wings 12 lines.

a. ———? From Mr. Milne's collection.

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CARADRINA CUBICULARIS.

cc. Hindostan. From Archdeacon Clerk's collection.

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RUSINA? DOCILIS.

Mas. *Cinerea*; *caput fuscum*; *palpi validi, oblique ascendentes articulo 3o conico brevi*; *antennæ vix pectinatæ*; *thorax antice fuscus*; *alæ anticæ disco fusco, guttis marginalibus nigris, orbiculari et reniformi e guttis duabus nigris, lituris apud marginem interiorem nigris*; *posticæ cinereæ, ciliis pallidioribus*.

Male. Cinereous. Head dark brown. Proboscis short. Palpi stout, obliquely ascending; third joint conical, not more than one-fourth of the length of the second. Antennæ hardly pectinated. Thorax dark brown in front. Fore wings dark brown, except towards the tips and along the exterior border; marginal dots black; orbicular and reniform spots very indistinct, represented by two black dots; a few black marks along the interior border. Hind wings cinereous, with paler ciliæ. Length of the body 5 lines; of the wings 12 lines.

a. North India. From Capt. Reid's collection.

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AGROTIS SUFFUSA.

zz. St. Domingo. From Mr. Tweedie's collection.

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AGROTIS FENNICA.

h—j. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

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AGROTIS OROPHILA.

Fœm. *Obscure cinerea; alæ anticæ basi nigricantes, ocellis duabus discalibus punctisque submarginalibus nigris.*

Brotis Orophila (Noctua genuina, Agrotis ambigua), Geyer, Zeit. Samml. Exot. Schmett. v. 7, 405, f. 809, 810.

Mexico.

AGROTIS REPLETA.

Mas. *Cervina; caput et thorax anticus obscure cinerea, hic lineis undulatis fuscis; palpi nigri; antennæ simplices; alæ anticæ longæ, angustæ, fusco nebulosæ, lineis distinctis cervinis nigro marginatis, macula apicali magna cervina, striga discali interrupta nigra, orbiculari subrotunda, costa exteriore nigra; posticæ albæ, semihyalinæ, costa margineque interiore cervinis.*

Male. Fawn-colour. Head and fore part of the thorax dark cinereous, the latter with brown undulating lines. Palpi black. Antennæ simple. Fore wings long, narrow, shaded with brown; transverse lines distinct, pale fawn-colour, with black borders; a large pale fawn-coloured apical spot; veins black along the exterior border; a black discal streak interrupted by the orbicular spot, and extending between it and the reniform; orbicular almost round, hardly half the size of the reniform; costa black between the reniform spot and the apical mark. Hind wings white, semihyaline, fawn-colour along the costa and along the interior border. Length of the body 10 lines; of the wings 22 lines.

a. Mexico. From M. Sallé's collection.

AGROTIS LIDIA.

Ferruginosa; antennæ luteæ; abdomen cinerascens; alæ anticæ linea subcostali lineisque tribus obliquis undulatis (3a late interrupta) albidis, striga lata discali glaucescente, orbiculari et reniformi lutescentibus albido marginatis; posticæ pallidiores, ciliis albis.

Phalæna-Noctua Lidia, Cram. Pap. Exot. iv. 222, pl. 396, f. D. Berbice.

AGROTIS EMITTENS.

Pallidissime cervina; thorax antice fuscescens; alæ anticæ nigro conspersæ, lituris transversis costalibus, lineis indistinctis undulatis guttisque marginalibus nigris, fascia exteriori cervina intus nigro marginata, macula costali subapicali lineaque submarginali fuscis; posticæ albidæ, semihyalinæ, margine æneo-cervino.

Very pale fawn-colour. Thorax brownish in front. Fore wings very slightly and minutely speckled with black, adorned with transverse black marks along the costa, with very slight and indistinct undulating transverse black lines, and with black marginal dots; a dark fawn-coloured band at three-fourths of the length, bounded with black on the inner side, and having a brown costal spot between it and the tip; submarginal line brown, very incomplete. Hind wings whitish, semihyaline, with æneous fawn-coloured borders. Length of the body 8 lines; of the wings 20 lines.

Jamaica. In Mr. Saunders' collection.

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AGROTIS BELTIS.

Rufa; abdomen fuscum; alæ anticæ cervino variæ, litura discali serpentina albida, fascia obliqua exteriori rosea; posticæ nigro-fuscæ, basi subroseo, margine testaceo.

Phalæna-Noctua Beltis, *Cram. Pap. Exot.* iv. 223, pl. 396, f. 1.

Panolis Beltis, *Hübner. Verz. Schmett.* 214, 2135.

Surinam.

AGROTIS HOSTILIS.

Fœm. Cinerea; abdomen canum; alæ anticæ nigro conspersæ, maculis costalibus lunulisque marginalibus elongatis nigris, lineis transversis nigris et albidis undulatis indistinctis, linea submarginali et macula orbiculari albidis, hac subrotunda; posticæ pallide cinereæ, margine æneo-fusco, ciliis albidis.

Female. Cinereous. Abdomen hoary. Fore wings slightly flecked with black, with black costal spots, and with elongated black marginal lunules; transverse lines black and whitish, undulating, indistinct; submarginal line whitish; orbicular spot whitish,

almost round, more distinct than the reniform and about half its size. Hind wings pale cinereous, with æneous-brown borders; ciliæ whitish. Length of the body $7\frac{1}{2}$ lines; of the wings 17 lines.

a. Venezuela. From Mr. Dyson's collection.

AGROTIS AMBROSIOIDES.

Fœm. *Rufescente-ferruginea; thorax cinereo fasciatus; abdomen cinereum; alæ anticæ postice subcinerascentes, lunulis marginalibus nigricantibus indistinctis, rubro marginatis, orbiculari oblonga subquadrata, reniformi vix excavata; posticæ albæ, margine perangusto fusco.*

Noctua ambrosioides, Moritz, MSS.

Female. Reddish ferruginous. Thorax with a cinereous band. Abdomen cinereous. Fore wings with a cinereous tinge between the discal spots and the interior border; marginal dots blackish, minute, indistinct; discal spots distinct, with deep red borders; orbicular oblong, subquadrate, more than half the size of the reniform, which is hardly excavated. Hind wings white, with very narrow brown borders. Length of the body 8 lines; of the wings 18 lines.

Venezuela.

a. Bogotà. From Mr. Stevens' collection.

AGROTIS CONSUETA.

Mas. *Cinereo-ferruginea; abdomen cinereum; antennæ subciliatæ; alæ anticæ lineis nigricantibus duplicatis undulatis indistinctis, submarginali maculari, lunulis nigris, orbiculari et reniformi pallide cinereis, orbiculari subrotunda; posticæ albidæ, margine fusco.*

Male. Ferruginous, with a cinereous tinge. Antennæ minutely ciliated. Abdomen cinereous. Fore wings with the transverse lines blackish, double, undulating, indistinct; submarginal line macular; marginal lunules black; orbicular and reniform spots pale cinereous, with darker disks; orbicular nearly round, much smaller than the reniform, which is excavated on the outer side. Hind wings whitish; borders brown. Length of the body 7 lines; of the wings 16 lines.

a. Bogotà. From Mr. Stevens' collection.

AGROTIS DEPRIVATA.

Mas. *Pallide cervina, abdomine pallidissimum; alæ anticæ orbiculari et reniformi indistinctis fusco marginatis, striga discali nigra interrupta, guttis marginalibus nigris minimis; posticæ albæ, iridescentes.*

Male. Pale fawn-colour. Abdomen very pale. Fore wings with the orbicular and reniform spots slightly indicated by their darker borders; a black streak commencing before the orbicular spot, and occupying the space between it and the reniform; marginal dots black, very minute. Hind wings white, iridescent. Length of the body 6 lines; of the wings 14 lines.

a. Valdivia. From Mr. Cuming's collection.

AGROTIS SEMIDOLENS.

Cinerea; abdomen canum, apice testaceum; alæ anticæ fuscæ, dimidio basali costaque exteriore nigris, basi costaque albido notatis, orbiculari et reniformi indistinctis albido marginatis, guttis marginalibus nigris; posticæ albæ, costæ margine venisque fuscis.

Cinereous. Abdomen hoary, testaceous at the tip. Fore wings brown, blackish from near the base to beyond the discal spots and along the exterior half of the costa; base and costa with whitish marks; discal spots indistinct, with whitish borders; marginal dots black. Hind wings white, brown along the costa, and with a slender brown border; veins brown. Length of the body 9 lines; of the wings 20 lines.

Valley of the Amazon.

a. Bogotá. From Mr. Stevens' collection.

AGROTIS HIRTIPALPIS.

Mas. *Obscure ferruginea; palpi nigri, pilosissimi; antennæ nigrae, ciliatæ; abdomen basi canum; alæ anticæ ferruginæ cano conspersæ, lineis undulatis canis ferrugineo marginatis, orbiculari obsoleta, reniformi indistincta, guttis marginalibus nigris; posticæ albæ, lunulis marginalibus elongatis nigris.*

Male. Dark ferruginous. Palpi black, very pilose. Antennæ black, ciliated. Abdomen paler than the thorax, hoary towards the

base. Fore wings ferruginous, flecked with hoary, adorned with hoary undulating lines, which have dark ferruginous borders; orbicular spot obsolete; reniform very indistinct; marginal dots black. Hind wings white, with elongated blackish marginal lunules. Length of the body $7\frac{1}{2}$ lines; of the wings 20 lines.

Bogotá. In Mr. Saunders' collection.

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AGROTIS IGNICOLLIS.

Fœm. *Pallidissime viridis; palpi extus nigri; thorax rufescens cervinus, fascia antica nigra; alæ anticæ nigro subconspersæ, lunulis marginalibus maculisque tribus costalibus magnis subquadratis nigris; posticæ albidæ, fusco apud costam conspersæ, guttis marginalibus nigris.*

Female. Very pale green. Palpi mostly black on the outer side. Thorax reddish fawn-colour, with a black band in front. Fore wings very slightly speckled with black, with a row of black marginal lunules, and with three large black subquadrate costal spots, which have some black marks between them. Hind wings whitish, speckled with brown in front; marginal dots black. Length of the body 7 lines; of the wings 18 lines.

Port Natal. In Mr. Saunders' collection.

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Dele AGROTIS BASICLAVIS.

The specimen described is *Ochropleura flammatra*.

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AGROTIS PLAGIATA.

Mas. *Testacea; palporum articulus 2us fuscus, vertex cervinus; antennæ simplices; abdomen alas posticas superans; alæ anticæ sat angustæ, antice fusco notatæ, orbiculari obsoleta, reniformi magna fusca subquadrata non excavata, margine exteriori fusco; posticæ cinereæ.*

Male. Testaceous. Second joint of the palpi brown. Vertex of the head fawn-colour. Antennæ simple. Abdomen extending

somewhat beyond the hind wings. Fore wings rather narrow, with brown marks on the fore part; orbicular spot obsolete; reniform large, brown, subquadrate, not excavated; exterior border wholly brown. Hind wings cinereous. Length of the body 7 lines; of the wings 16 lines.

a. Ceylon. From the Rev. J. Wenham's collection.

AGROTIS FLAGIFERA.

Cervina; abdomen pallidum; alæ anticæ fusco subconsersæ, lineis transversis fuscis subobsoletis, plaga magna costali subtrigona fusca, guttis exterioribus et marginalibus nigris.

Female. Fawn-colour. Thorax and fore wings slightly speckled with brown. Abdomen paler. Fore wings with the usual transverse lines brownish red, almost obsolete; a large nearly triangular brownish red patch joining the costa and concealing the reniform spot; two rows of black dots, one exterior, the other marginal. Hind wings pale æneous-brown; costa and ciliæ whitish. Length of the body 8 lines; of the wings 20 lines.

a. Ceylon. Presented by R. Templeton, Esq.

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AGROTIS CORDATA.

Mas. Pallide cervina; antennæ subpectinatæ; thorax nigro fasciatus; abdomen pallide cinereum; alæ anticæ nigro consersæ, lituris costalibus nigris, striga discali interrupta, nigricante, lineis subobsoletis, submarginali pallida, margine exteriori ex parte fusco, orbiculari et reniformi albido marginatis, orbiculari oblonga, reniformi albido guttata; posticæ canæ.

Male. Pale dull fawn-colour. Antennæ slightly pectinated. Thorax with a slender black band in front. Abdomen pale cinereous. Fore wings slightly speckled with black, with some black marks along the costa, and with a blackish discal streak, which is interrupted by the spots; transverse lines almost obsolete; submarginal line pale; exterior border partly brown; orbicular and reniform with whitish borders; orbicular oblong, much smaller than the reniform, which has a whitish dot near its exterior side. Hind wings hoary, with brownish borders; ciliæ whitish; under side with

a large black apical spot. Length of the body 7 lines; of the wings 16 lines.

a. Australia. Presented by H. G. Harrington, Esq.

AGROTIS REPANDA.

Fœm. *Fuscescente-cinerea; palpi nigri et albidī; thorax albido fasciatus; abdomen testaceo-albidum; tarsi albo cincti; alæ anticæ latiusculæ, lineis albidis angulosis nigro marginatis, lunulis marginalibus nigris trigonis, orbiculari subfusiformi; posticæ fusæ, ciliis albidis.*

Female. Brownish cinereous. Palpi black and whitish. Thorax with a whitish band. Abdomen testaceous-white. Tarsi with white bands. Fore wings rather broad; transverse lines whitish, with black borders, zigzag or forming lanceolate streaks; marginal dots black, triangular; orbicular spot much elongated, subfusiform. Hind wings brown; ciliæ whitish. Length of the body 8—9 lines; of the wings 18—20 lines.

a, b. Australia. Presented by Major-General Hardwicke.

AGROTIS NULLIFERA.

Mas. *Pallide cervina; abdomen pallidissimum; antennæ serratæ; alæ anticæ guttis indistinctis obscurioribus exterioribus; posticæ pallidissime cervinæ, nitentes.*

Male. Pale fawn-colour. Abdomen very pale. Antennæ serrated. Fore wings without any marks, excepting an indistinct darker dot on each of the exterior veins. Hind wings very pale fawn-colour, shining. Length of the body 10 lines; of the wings 24 lines.

a. New Zealand. From Mr. Earl's collection.

Page 353.

For AGROTIS INSIGNATA (nomen bis lectum), read AGROTIS ILLATA.

Page 365.

SPÆLOTIS SIBIRICA.

Agrotis corrosa? Herr.-Schæff. Schmett. Eur. ii. 333, 455, pl. 29, f. 141.

Page 378.

OPIGENA POLYGONA.

Opigena polygona, Herr.-Schæff. Schmett. Eur. ii. 329, 448.

OPIGENA REPANDA.

Cinereo-fusca; alæ anticæ lineis transversis et macularum obscurarum marginibus albidis, claviformi obsoleta; posticæ margine latissimo nigro-cinereo, ciliis pallidis.

Opigena repanda, Herr.-Schæff. Schmett. Eur. ii. 330, 449, pl. 13, f. 61.

Crimea.

Page 384.

TRIPHÆNA SEMIHERBIDA.

Mas. Viridis; caput et thorax albo fasciata; palporum articulus 2us fasciculatus; abdomen cinereum; alæ anticæ ex parte fuscæ, lineis undulatis, striga subcostali subapicali lunulisque marginalibus elongatis nigris, gutta basali alba, orbiculari et reniformi nigro alboque ex parte marginatis, illa subrotunda; posticæ luteæ, macula discali magna fasciæque lata cupreo-fuscis.

Male. Green. Head and thorax with white bands. Second joint of the palpi with a long tuft beneath. Abdomen cinereous. Fore wings partly brown; transverse lines undulating, green or brown, according as the opposite colour predominates; a black subcostal subapical streak, and elongated black marginal lunules; a white basal dot; orbicular and reniform spots partly bordered with black and white, the former nearly round, much smaller than the latter. Hind wings luteous; a large discal spot and a broad band cupreous-brown; extreme border and ciliæ luteous. Length of the body 7 lines; of the wings 18 lines.

a. North India. From Capt. Reid's collection.

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GRAPHIPHORA AUGUR.

- aa—hh. Trenton Falls, New York. Presented by E. Doubleday, Esq.
 ii. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

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GRAPHIPHORA ILLAPSA.

Fœm. *Subferrugineo-cinerea*; *palpi nigro-fusci, apice pallidi*; *thorax antice nigro fasciatus*; *abdomen cinereum*; *alæ anticæ nigro conspersæ, lituris costalibus lineisque valde incompletis nigris, orbiculari obsoleta, reniformi e lituris nigris, fasciis duabus latis ferrugineis lineaque intermedia albida exterioribus*; *posticæ cinereæ, ferrugineo marginatæ.*

Female. Cinereous, with a slight ferruginous tinge. Palpi blackish brown, with pale tips. Thorax with a black band in front. Abdomen cinereous. Fore wings minutely speckled with black, with black costal marks, and with very incomplete black transverse lines; orbicular spot obsolete; reniform indicated by some black marks; a broad exterior ferruginous band, partly divided by a whitish line from the pale ferruginous marginal band. Hind wings cinereous, ferruginous towards the borders. Length of the body 14 lines; of the wings 6 lines.

- a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

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GRAPHIPHORA MAJA.

- a. Rio Janeiro. From Mr. Stevens' collection.

GRAPHIPHORA SOBRIA.

Fœm. *Murina*; *palporum articulus 3us conicus, brevissimus*; *abdomen cinereum*; *alæ anticæ lineis nigris undulatis indistinctis, orbiculari et reniformi nigro marginatis*; *orbiculari suboblonga*; *posticæ cinereæ.*

Female. Mouse-colour. Third joint of the palpi conical, not one-fourth of the length of the second. Abdomen cinereous. Fore

wings with the transverse lines black, undulating, indistinct; orbicular and reniform spots with black borders; orbicular slightly oblong, hardly half the size of the reniform. Hind wings cinereous, hardly paler than the fore wings; under side with the usual discal dot and line. Length of the body 6 lines; of the wings 15 lines.

a. Bogotá. From Mr. Stevens' collection.

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GRAPHIPHORA? QUADRATA.

Mas. *Ferruginea*; palpi caput superantes, articulo 2o valido oblique truncato, 3o gracili longi-conico; abdomen subcinereo-ferrugineum; alæ anticæ murino tinctæ lituris obsoletis aut subobsoletis, margine exteriori vix obliquo; posticæ subæneo-cinereæ.

Male. Ferruginous. Palpi extending somewhat beyond the head; second joint stout, obliquely truncated; third slender, elongate-conical, not one-fourth of the length of the second. Abdomen pale ferruginous, slightly cinereous. Fore wings slightly suffused with mouse-colour; all the marks obsolete, or almost so; exterior border hardly oblique. Hind wings cinereous, with an æneous tinge. Length of the body 6 lines; of the wings 14 lines.

a. Tasmania. From Mr. A. J. Smith's collection.

GRAPHIPHORA? FACILIS.

Mas. *Murina*; caput et thorax anticus nigro fasciata; palporum articulus 3us cylindricus; antennæ simplices; abdomen cinereum; alæ anticæ lineis albidis et nigris subobsoletis, orbiculari obsoleta, reniformi albido marginata; posticæ subæneo-cinereæ, ciliis albidis.

Male. Mouse-colour. Head and fore part of the thorax with black bands. Third joint of the palpi cylindrical, one third of the length of the second. Antennæ simple. Abdomen cinereous. Fore wings with the transverse lines whitish and black, almost obsolete; orbicular spot obsolete; reniform slightly distinguished by its whitish border. Hind wings cinereous, with an æneous tinge; ciliæ whitish. Length of the body 7 lines; of the wings 16 lines.

a. Tasmania. Presented by J. G. Children, Esq.

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GRAPHIPHORA INFICITA.

Mas. *Cervina*; abdomen testaceum; alæ anticæ lineis transversis ferrugineis angulosis valde indistinctis, linea mediana obscuriore, submarginali pallida, orbiculari subobsoleta, reniformi pallido marginata, macula postica contigua nigricante; posticæ æneo-fuscæ, ciliis testaceis.

Male. Fawn-colour. Abdomen testaceous. Fore wings with the transverse lines ferruginous, angulose, very indistinct; exterior median line a little darker than the others; submarginal line pale; orbicular spot almost obsolete; reniform distinguished by a pale border, and having a contiguous blackish spot behind it; veins darker towards the tips. Hind wings æneous-brown; ciliæ testaceous. Length of the body 6 lines; of the wings 15 lines.

a. ———?

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ORTHOSIA INSCIENS.

Fœm. *Cinerea*; alæ anticæ lineis transversis undulatis albidis et ferrugineis subobsoletis, linea distincta albida submarginali; orbiculari et reniformi nigricantibus albido marginatis, illa magna subrotunda, guttis exterioribus lunulisque marginalibus nigris.

Female. Cinereous. Fore wings with the usual transverse undulating lines whitish and ferruginous, and very indistinct; a much more distinct whitish submarginal line; orbicular and reniform spots blackish, with whitish borders, the former large, nearly round; a row of exterior black dots and another of black marginal lunules. Length of the body 6 lines; of the wings 16 lines.

a. United States. Presented by E. Doubleday, Esq.

ORTHOSIA SINENS.

Fœm. *Alba*; alæ anticæ cinereo notata, gutta basali, guttis costalibus strigae interrupta nigris, orbiculari et reniformi obsoletis; posticæ subæneæ, ciliis albis.

Female. White. Fore wings with some cinereous marks of various size along the costa and in the disk; a black dot near the

base, two or three along the costa, and an irregular and interrupted black streak at some distance in front of the interior angle; orbicular and reniform spots obsolete. Hind wings slightly æneous; ciliæ white. Length of the body 5 lines; of the wings 14 lines.

a. Hindostan. From Archdeacon Clerk's collection.

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ORTHOSIA SUBNIGRA.

Mas. *Canæ, subtus nigra; palpi nigri, apice albi; antennæ vix ciliatæ; alæ anticæ nigro subconspersæ, costâ nigro biguttata aut triguttata, lineis transversis subobsoletis, orbiculari e gutta nigra, reniformi fusca extus valde excavata, gutta contigua lutea; posticæ cinereæ.*

Female. Hoary, black beneath. Antennæ very minutely ciliated. Palpi black, white towards the tips. Thorax and fore wings with very minute black speckles. Fore wings with two or three black dots on the costa; transverse lines almost obsolete; orbicular spot distinguished by a black dot; reniform brown, much excavated on the outer side, where it is accompanied by a luteous dot. Hind wings cinereous, black beneath, like the fore wings; each of the four wings beneath with an indistinct deep black lunule. Length of the body 6 lines; of the wings 14 lines.

a. Australia. Presented by E. Doubleday, Esq.

b. Moreton Bay. From Mr. Diggles' collection.

ORTHOSIA? LUNIFERA.

Fœm. *Cinerea; alæ anticæ nigro conspersæ, lineis transversis angulosis nigris indistinctis aut subobsoletis, claviformi et orbiculari subobsoletis, reniformi nigra lunata; posticæ subtus gutta discali lineaque antice dilatata fuscis.*

Female. Cinereous. Thorax and fore wings minutely speckled with black. Fore wings with the usual transverse lines black, zig-zag, indistinct or incomplete; claviform and orbicular spots almost obsolete; reniform distinguished by a black lunule. Hind wings beneath with a brown discal dot; and a brown line which is dilated about the tip. Length of the body 6 lines; of the wings 14 lines.

a. Adelaide. Presented by the Entomological Club.

ORTHOSIA INFENSA.

Fœm. *Ferrugineo-rufa; palpi ascendentes, articulo 3o cylindrico; thorax cristatus, fascia antica alba nigro marginata, maculis humeralibus albis; abdomen pallide cervinum; alæ anticæ albo notatæ, orbiculari obsoleta, reniformi e litura alba; posticæ subæneæ, basi cinereæ, ciliis albidis.*

Female. Ferruginous-red. Palpi ascending; third joint cylindrical, not more than one-fourth of the length of the second. Thorax crested, with a white black-bordered band in front, joining a white humeral spot. Abdomen pale fawn-colour. Fore wings with a few white marks along the costa and on some of the veins; orbicular spot obsolete; reniform slightly indicated by a white mark. Hind wings somewhat æneous, cinereous towards the base; ciliæ whitish. Length of the body 6 lines; of the wings 16 lines.

a. New Zealand. From Mr. Earl's collection.

ORTHOSIA? SEMISIGNA.

Subtestaceo-cinerea; thoracis fasciculus e pilis erectis apice fuscis; alæ anticæ nigro conspersæ, litura postica nigra, reniformi fusca quadrata nigro marginata, orbiculari indistincta extus nigro lineata; posticæ fasciis duabus obscurioribus.

Cinereous, with a very slight testaceous tinge. Thorax with a tuft of upright brown-tipped hairs. Fore wings with black speckles, and with a black mark near the posterior angle; reniform spot brown, quadrangular, narrower hindward, bordered with black; orbicular indistinct, with a black line on its exterior side; a minute black mark behind it. Hind wings with two darker bands. Length of the body 6 lines; of the wings 14 lines.

a. ———? Presented by E. Doubleday, Esq.

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XANTHIA GILVAGO.

Var.? *Pallide lutea; abdomen albido-testaceum; alæ anticæ gutta basali nigra, lineis nigricantibus undulatis interruptis, litura postica nigricante, orbiculari, reniformi lineisque interioribus subobsoletis, ciliis nigro guttatis; posticæ albæ, testaceo marginatæ.*

Pale luteous. Abdomen whitish testaceous. Fore wings with a black dot at the base; transverse lines blackish, undulating, interrupted; a blackish mark behind the reniform spot, which, like the orbicular and the interior lines, is almost obsolete; exterior lines more distinct; ciliæ with blackish dots. Hind wings white, with testaceous borders.

h. Europe. From Mr. Milne's collection.

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XANTHIA SPURCATA.

Mas. *Luteo-cervina*; abdomen *cinereum*, *apice cervinum*; *alæ anticæ lituris basalibus indistinctis nigricantibus, dimidio exteriore obscure cervino, fasciis duabus guttisque nigricantibus, lunulis marginalibus nigricantibus attenuatis, orbiculari et reniformi obsoletis*; *posticæ nigricante æneæ, costa ciliisque pallide luteis.*

Male. Luteous fawn-colour. Abdomen cinereous, except at the tip. Fore wings with some indistinct blackish marks near the base; exterior half dark fawn-colour, with two blackish bands, between which there are some blackish dots; marginal lunules blackish, attenuated; orbicular and reniform spots obsolete. Hind wings blackish æneous; costa and ciliæ pale luteous. Length of the body $5\frac{1}{2}$ lines; of the wings 13 lines.

a. Orilla, West Canada. From Mr. Bush's collection.

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XANTHIA? PALES.

Alæ luteæ, fusco ciliatæ, anticæ basi subvittatæ striga transversa punctoque exteriore fuscis.

———, *Drury, Ins.* i. 47, pl. 23, f. 3.

Phalæna-Noctua Pales, Drury, App. ii.

Noctua Pales, Westw. Drury, i. 43, pl. 23, f. 3.

St. Christopher.

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CIRRÆDIA VARIOLOSA.

Mas. *Lutea ; alæ anticæ pallide flavæ luteo conspersæ, extus pallide purpurascens, fascia intermedia fusca fasciisque duabus luteo-fulvis, lineis fuscis angulosis, orbiculari fusca pallido pupillata, reniformi ex parte pallida ; posticæ pallidissime cervinæ, ciliis albo marginatis.*

Male. Luteous. Abdomen paler than the thorax. Fore wings pale yellow, with luteous speckles from the base to the middle; exterior half lilac, with a brown intermediate band, and with two luteous fawn-coloured bands, one marginal, the other adjoining the brown band, and not extending beyond the middle from the costa; lines brown, angular, the exterior one bounding the short band; orbicular spot brown, round, with a pale central mark; reniform partly pale, its outline indistinct. Hind wings very pale fawn-colour; ciliæ with white borders, like those of the fore wings. Length of the body 5 lines; of the wings 12 lines.

a. North India. Presented by General Hearsay.

CIRRÆDIA EDENTATA.

Mas. *Lutea ; caput cristatum ; abdomen testaceum ; alæ anticæ lineis quatuor ferrugineis, 1a 2aque connexis, 3a 4aque abbreviatis, fascia exteriori diffusa pallide purpurascens, ciliis albo marginatis, orbiculari parva alba transversa fusco marginata, reniformi subobsoleta, angulo marginis exterioris conspicuo ; posticæ testacæ, apud costam albæ.*

Male. Luteous. Head tufted. Abdomen testaceous. Fore wings with four irregular transverse ferruginous lines, the first and the second united by the hind border, the third and fourth not extending beyond the middle of the wing from the costa; a diffuse lilac band between the fourth line and the exterior border, almost obsolete hindward; ciliæ with white borders; orbicular spot small, white, transverse, with a brown border; reniform almost obsolete; exterior border with a conspicuous angle. Hind wings testaceous, white along the costa. Length of the body $5\frac{1}{2}$ lines; of the wings 13 lines.

a. Tasmania. From Mr. Wood's collection.

Page 510.

For Isle of Oute, read Isle of Crete.

Page .

DIANTHÆCIA LUTEIFRONS.

Mas. *Cinerea*; caput luteum; abdomen apice fuscescens; alæ anticæ nigro-fuscae, litura basali alba, lituris duabus albis anticæ obsoletis, 1a interiore, 2a exteriore, magis undulata, fascia exteriore lutea, linea submarginali pallide flava, orbiculari et reniformi albo flavoque variis, costa luteo notata, margine exteriori albo consperso, lunulis marginalibus nigris; posticæ cinereæ, linea discali fasciæque marginali latissima obscurioribus.

Male. Cinereous. Head luteous. Abdomen brownish at the tip. Fore wings blackish brown, with a white mark at the base, and with two white lines, which are obsolete in front; the first interior, less undulating than the other, which is exterior, and is accompanied by a more exterior luteous band, beyond which is the pale yellow submarginal line; orbicular and reniform spots varied with white and pale yellow; costa with luteous marks; exterior border sprinkled with white; marginal lunules black. Hind wings cinereous, with the discal line and the very broad marginal band darker. Length of the body 6 lines; of the wings 14 lines.

North India. In the East India Company's collection.

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EUPLEXIA CONFUNDENS.

c. Moreton Bay. From Mr. Diggles' collection.

Page 558.

EUROIS REPUGNANS.

Fœm. *Cinerea*, olivaceo-viridi subtineta; abdomen fusco-cinereum; alæ anticæ fusco conspersæ, fascia angusta indistincta interiore undulata, plaga costali trigona, linea exteriori obliqua guttulari, fascia guttisque marginalibus fuscis, margine exteriori denticulato; posticæ cupreo-fuscae, ciliis albido marginatis.

Female. Cinereous, with a slight tinge of olive-green. Abdomen brownish cinereous. Fore wings slightly speckled with brown, with a slender indistinct interior undulating brown band, with a triangular brown patch on the middle of the costa, and with an exterior transverse oblique line of dark brown dots; a brown band and a row of dark brown dots along the exterior border, which is very distinctly denticulated. Hind wings cupreous-brown, pale in front; ciliæ with whitish borders. Length of the body 9 lines; of the wings 22 lines.

Hindustan. In the East India Company's collection.

Page 563.

For *Hadena sulceris*, *read* *Hadena suberis*.

Page 569.

HADENA LEUCODON.

a, b. Europe. From M. Becker's collection.

Page 577.

HADENA W-LATINUM.

p—r. Europe. From M. Becker's collection.

Page 585.

HADENA DETRACTA.

Mas. *Fuscescente-cinerea*; *palpi porrecti, articulo 3o conico brevissimo*; *antennæ serratæ, ciliatæ*; *abdomen cinereum, cristatum*; *alæ anticæ lineis nigricantibus undulatis incompletis*; *lunulis marginalibus elongatis, claviformi fusca nigro conspersa et marginata, orbiculari et reniformi cinereis nigro marginatis, illa oblonga subobliqua*; *posticæ cinereæ*.

Male. Brownish cinereous. Palpi porrect; third joint conical, not more than one-fourth of the length of the second. Antennæ serrated and ciliated. Abdomen crested, cinereous. Fore wings with the transverse lines blackish, undulating and incomplete; marginal lunules elongated; claviform spot brown, speckled with black, and with a black border; orbicular and reniform cinereous, bordered with black, the former oblong, slightly oblique, more than

half the size of the reniform, which is slightly excavated on the exterior side. Hind wings cinereous. Length of the body 5 lines; of the wings 14 lines.

a. Trenton Falls, New York. Presented by E. Doubleday, Esq.

HADENA CLAUDENS.

Mas. *Cana; abdomen cinereum; alæ anticæ ex parte cinereo nebulosæ et nigro conspersæ, lituris costalibus nigricantibus, lineis nigris undulatis incompletis, ex parte nigro marginatis, orbiculari magna obliqua; posticæ fuscescente-cinereæ, ciliis albidis.*

Male. Hoary. Abdomen cinereous. Fore wings slightly and incompletely shaded with gray and speckled with black, with blackish marks along the costa, and with undulating and incomplete blackish transverse lines; orbicular and reniform spots white, partly bordered with black; orbicular spot oblique, large, rather smaller than the reniform, which is slightly excavated on its exterior side. Hind wings brownish cinereous, with whitish ciliæ. Length of the body 6 lines; of the wings 14 lines.

a. Newfoundland. Presented by W. C. St. John, Esq.

HADENA ALBIFUSA.

Mas et fœm. *Testacea; palpi ascendentes, articulo 3o conico brevissimo; abdomen albido-testaceum; alæ anticæ albidæ, basi fasciisque duabus exterioribus cervinis, lineis transversis undulatis incompletis, strigis paucis exterioribus lunulisque marginalibus nigris, maculis nigro marginatis, orbiculari obliqua fusiformi aut subovata; posticæ cinereæ, margine lato æneo-fusco, ciliis albis.*

Male and female. Testaceous. Palpi ascending; third joint conical, not one-fourth of the length of the second. Abdomen whitish testaceous. Fore wings whitish, varied with fawn-colour, which occupies the basal part, excepting the costa, and forms two exterior bands; costa with black marks; transverse lines black, undulating, irregular and incomplete; a few exterior black streaks interrupted by the submarginal line, which is pale and zigzag; marginal lunules black; discal spots with black borders; orbicular oblique, fusiform or nearly oval, about half the size of the reniform,

which is slightly excavated on the exterior side. Hind wings cinereous, with broad æneous-brown borders; ciliæ white. Length of the body 6—6½ lines; of the wings 15—16 lines.

a—c. Nova Scotia. From Lieut. Redman's collection.

HADENA CONTENTA.

Fœm. *Ferruginea*; palpi oblique ascendentes, articulo 3o cylindrico; abdomen cinereum; alæ anticæ lineis medianis nigris undulatis, venis nigris albo conspersis, fascia exteriori incompleta nigricante-cinerea, lunulis marginalibus nigris connexis, macula magna apicali testacea, macularum marginibus nigris albo conspersis, claviformi et reniformi nigricante-cinereis, orbiculari oblonga subelliptica; posticæ pallide cinereæ, margine lato nigricante-cinereo, ciliis testaceis.

Female. Ferruginous. Palpi obliquely ascending; third joint cylindrical, about one-third of the length of the second. Abdomen cinereous. Fore wings with the median transverse lines black, slight and undulating; veins black, speckled with white; an incomplete blackish cinereous band along the exterior border, which is denticulated; marginal lunules black, connected; a large testaceous apical spot; discal spots with black white-speckled borders; claviform and reniform blackish cinereous, the latter slightly excavated on the exterior side, much larger than the orbicular, which is elongated and nearly elliptical. Hind wings pale cinereous, with broad blackish gray borders; ciliæ testaceous. Length of the body 8 lines; of the wings 20 lines.

a. Orilla, West Canada. From Mr. Bush's collection.

Page 590.

HADENA? CEDICA.

Ferruginea; alæ anticæ venis, linea transversa postica, fascia arcuata interiore, fascia exteriori antice furcata guttisque submarginalibus albis; posticæ marginatæ, macula apud angulum interiorem alba.

Phalæna-Noctua Cedica, *Cram. Pap. Exot.* iv. 42, pl. 310, f. E. Surinam.

HADENA SUBJECTA.

Mas. *Testacea; thorax fasciis duabus nigris late interruptis; alæ anticæ fascia obscuriore media obliqua nigro marginata et interlineata, lituris costalibus strigisque exterioribus nigris, linea submarginali albida undulata indistincta; orbiculari et reniformi magnis subrotundis subæqualibus nigro marginatis; posticæ albæ, fusco marginatæ.*

Male. Testaceous. Thorax with two widely interrupted black bands. Fore wings with a darker oblique middle band, which is bounded and interlined with black; the usual black marks along the costa, and black streaks along the exterior border; submarginal line whitish, undulating, indistinct; orbicular and reniform spots large, nearly round, almost equal in size, mostly bordered with black. Hind wings white; exterior border and adjoining part of the fore wings brown. Length of the body 5 lines; of the wings 12 lines.

Brazil. In Mr. Saunders' collection.

HADENA APERIENS.

Nigro-fusca; palpi ascendentes; articulus 3us cylindricus, 2i triente non brevior; abdomen cinereum; alæ anticæ fascia lata ligno-fusca antice abbreviata, orbiculari et reniformi ligno-fusco interlineatis et marginatis, orbiculari rotunda, reniformi obliqua perangusta, linea duplicata exteriore obscure fusca, linea submarginali undulata cervina; posticæ albidæ, linea marginali duplicata fusca.

Blackish brown. Palpi ascending; third joint cylindrical, about one-third of the length of the second. Abdomen cinereous. Fore wings with a broad wood-brown-coloured band, which is abbreviated in front about the orbicular and reniform spots, which are interlined and bordered with wood-brown colour; orbicular round; reniform oblique, very narrow; a double dark brown line just beyond the reniform, and an undulating fawn-coloured submarginal line. Hind wings whitish, with a double brown marginal line. Length of the body 5—5½ lines; of the wings 11—12 lines.

a—c. Venezuela. From Mr. Dyson's collection.

Page 592.

HADENA EXTERNA.

Mas. *Testacea; pulpi porrecti, articulo 3o conico minimo; alæ anticæ striga basali, lituris costalibus, strigis submarginalibus lunulisque marginalibus nigris, linea exteriori obliqua angulata, maculis ex parte nigro marginatis, orbiculari magna, reniformi obliqua non excavata.*

Male. Testaceous. Palpi porrect, not extending beyond the head; third joint conical, very minute, less than one-fourth of the length of the second. Fore wings with a black basal streak, with black marks along the costa, with submarginal black streaks, and with black marginal lunules; transverse lines obsolete, except an exterior one, which is oblique, and forms an acute angle near the hind border; discal spots partly bordered with black; orbicular large, a little smaller than the reniform, which is oblique and not excavated. Length of the body 5 lines; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

HADENA MEDIA.

Mas. *Obscure ferruginea; caput et thorax anticus pallide ferruginea; palporum articulus 3us minimus; antennæ simplices; abdomen testaceum, cristis basalibus nigris; alæ anticæ apud medium nigro-cinerascentes, lineis transversis nigris angulosis incompletis, orbiculari et reniformi nigro ex parte marginatis, illa oblonga elliptica; linea submarginali pallida angulosa, guttis marginalibus magnis nigris; posticæ albæ, margine perangusto fusco.*

Male. Dark ferruginous. Head and fore part of the thorax pale ferruginous. Third joint of the palpi very minute. Antennæ simple. Abdomen testaceous, extending somewhat beyond the hind wings, with blackish crests towards the base. Fore wings with a blackish gray tinge in the middle; transverse lines black zigzag, incomplete; orbicular and reniform spots partly bordered with black; the former oblong, elliptical, a little smaller than the latter, which is very slightly excavated; submarginal line pale, angulose; marginal dots large, black. Hind wings white, with a very narrow

dark brown border. Length of the body 6 lines; of the wings 13 lines.

Canara. In the East India Company's collection.

HADENA RETRAHENS.

Mas. *Fuscescente-cinerea*; palpi ascendentes, articulo 3o minimo; abdomen cinereum; alæ anticæ ex maxima parte fuscæ, lineis albidis nigro marginatis, interiore subundulata, exteriori costam versus retracta, margine exteriori denticulato subaurato, orbiculari et reniformi nigro albidoque marginatis, illa oblonga; posticæ æneo-fuscæ, basi cinereæ.

Male. Brownish-cinereous. Palpi ascending; third joint very minute, not one-fourth of the length of the second. Abdomen cinereous. Fore wings mostly brown; the lines whitish, with black borders, the interior one slightly undulating, the exterior one abruptly angular and retracted in front, and joining the front of the reniform spot; between this line and the denticulated exterior border the wings are slightly gilded; orbicular and reniform spots with black and whitish borders, the former oblong, not more than half the size of the latter, which is much excavated on the exterior side. Hind wings æneous-brown, cinereous towards the base. Length of the body 6 lines; of the wings 14 lines.

Ceylon. In the East India Company's collection.

HADENA CONFUNDENS.

Mas. *Ferrugineo-fusca*; palpi porrecti, articulo 3o cylindrico longiusculo; antennæ simplices; alæ anticæ lineis nigricantibus diffusis undulatis indistinctis, guttis marginalibus indistinctis, margine exteriori integro, orbiculari et reniformi subobsoletis; posticæ æneo-fuscæ, basi cinereæ, ciliis testaceis.

Male. Ferruginous-brown. Palpi porrect; third joint cylindrical, full one-third of the length of the second. Antennæ simple. Fore wings with the transverse lines blackish, diffuse, undulating, indistinct; marginal dots also indistinct; exterior border entire; orbicular and reniform spots almost obsolete. Hind wings æneous-brown, cinereous towards the base; ciliæ testaceous. Length of the body 6 lines; of the wings 14 lines.

Ceylon. In the East India Company's collection.

Page 603.

HADENA LIGNANA.

Mas. *Pallidissime cervina; palporum articulus 3us minimus; antennæ vix ciliatæ; thorax et abdomen cristata, ille vittis obliquis angustis vittisque duabus latioribus humeralibus nigris; alæ anticæ basi fusco conspersæ, maculis tribus diffusis marginalibus fuscis, strigis costalibus lunulisque marginalibus nigris, maculis discalibus fusco marginatis, orbiculari oblonga subfusiformi basi fusco strigata, reniformi nigricante pupillata non excavata, linea submarginali pallida; posticæ fuscescente-cinereæ, ciliis pallidis.*

Male. Very pale fawn-colour. Third joint of the palpi not more than one-fourth of the length of the second. Antennæ very minutely ciliated. Thorax and abdomen crested. Thorax with slight oblique black stripes, and with two broader humeral stripes. Fore wings slightly streaked with brown towards the base, with three diffuse brown spots on the exterior border, with black marks along the costa, and with black marginal lunules; the three discal spots distinct, with brown borders; orbicular oblong, subfusiform, with a brown streak at its base; reniform not excavated, with a blackish disk; submarginal line pale, irregular, traversing the marginal spots. Hind wings brownish cinereous, with pale ciliæ. Length of the body 7 lines; of the wings 16 lines.

a. New Zealand. From Mr. Earl's collection.

HADENA ILLOCATA.

Mas. *Fusca; palpi oblique ascendentes, articulo 3o brevi cylindrico; antennæ subpectinatæ; alæ anticæ lineis albidis undulatis nigro marginatis, venis basi nigris, lunulis marginalibus nigris elongatis, orbiculari et reniformi albidis nigro marginatis, orbiculari obliqua longi-elliptica, reniformi non excavata; posticæ cinereo-fusca, lineis duabus obscurioribus.*

Male. Brown. Palpi obliquely ascending; third joint cylindrical, more than one-fourth of the length of the second. Antennæ slightly pectinated. Fore wings with the transverse lines whitish, undulating, bordered with black; veins black towards the base; marginal lunules black, somewhat elongated; orbicular and reniform spots mostly whitish, with black borders; orbicular oblique,

elongate-elliptical, much smaller than the reniform, which is not excavated. Hind wings cinereous-brown, with two indistinct darker lines. Length of the body 6 lines; of the wings 15 lines.

a. ——— ?

Page 614.

CLOANTHA RADIOSA.

a, b. Europe. From M. Becker's collection.

Page 617.

LITHOMIA SOLIDAGINIS.

s, t. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

Page 628.

XYLINA SPOLIATA.

Mas. *Albido-testacea; caput fusco fasciatum; palpi porrecti, articulo 3o conico brevissimo; thorax et abdomen nigro subconspersa; alæ anticæ substrigatæ, maculis duabus marginalibus magnis fuscis, lituris costalibus nigricantibus, guttis marginalibus nigris, strigis duabus discalibus (antica interrupta) fuscis; orbiculari obliqua oblonga; posticæ margine fuscescente, lunulis marginalibus attenuatis obscure fuscis.*

Male. Whitish-testaceous. Head with a brown band. Palpi porrect; third joint conical, not more than one-fourth of the length of the second. Antennæ serrated. Thorax and abdomen slightly flecked with black, the latter extending somewhat beyond the hind wings. Fore wings slightly streaked with two large brown spots on the exterior border, with blackish marks along the costa, and with black marginal dots; exterior veins with black or brown marks; a slight black basal line; a brown discal streak interrupted by the orbicular spot, which is oblique and oblong, and somewhat smaller than the reniform; a brown or black streak behind them. Hind wings with brownish borders; marginal lunules dark brown, attenuated. Length of the body $5\frac{1}{2}$ lines; of the wings 13 lines.

a, b. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

XYLINA COMMODA.

Fœm. *Ferruginea-fusca*; palpi porrecti, articulo 3o conico brevissimo; thorax subsfasciatus; abdomen cinereum; alæ antica lineis subobsoletis, guttis costalibus exterioribus et marginalibus albis, lunulis marginalibus nigricantibus indistinctis, orbiculari et reniformi obsoletis; posticæ fuscescente-cinereæ, basi ciliisque pallidioribus.

Female. Ferruginous-brown. Palpi porrect; third joint conical, not more than one-fourth of the length of the second. Thorax indistinctly banded. Abdomen cinereous. Fore wings with the transverse lines almost obsolete; some minute white dots along the apical part of the costa and along the exterior border, and on the exterior veins; marginal lunules blackish, indistinct; orbicular and reniform obsolete. Hind wings brownish cinereous, paler towards the base, and with pale ciliæ. Length of the body 6 lines; of the wings 16 lines.

a. United States. Presented by E. Doubleday, Esq.

XYLINA? CLAUFACIA.

Mas. *Ferruginea*; palpi ascendentes, articulo 3o conico brevissimo; antennæ subciliatæ; abdomen cinereum; alæ antica nigro conspersæ, lineis subobsoletis, guttis exterioribus nigricantibus, orbiculari et reniformi pallidis nigro marginatis, orbiculari oblonga obliqua; posticæ albæ, fusco marginatæ, lunulis marginalibus nigris attenuatis.

Male. Ferruginous. Palpi ascending; third joint conical, not more than one-fourth of the length of the second. Antennæ very minutely ciliated. Abdomen cinereous. Fore wings flecked with black; lines obsolete, except the exterior median one, which is represented by a double row of blackish dots, and the submarginal one, which is indistinct; orbicular and reniform spots pale, with black borders; orbicular oblong, oblique, much smaller than the reniform, which is slightly excavated on the exterior side. Hind wings whitish, with brown borders; marginal lunules black, attenuated. Length of the body 6 lines; of the wings 15 lines.

a. East Florida. Presented by E. Doubleday, Esq.

XYLINA ORBIFERA.

Mas. *Ferrugineo-rufa*; abdomen cinereum, apice cervinum; alæ anticæ posticæ albidæ, macula rotunda apicali alba, guttis marginalibus nigris elongatis, ciliis nigricante-cinereis; orbiculari, reniformi lineisque subobsoletis; posticæ cinereæ, margine diffuso æneo.

Male. Ferruginous-red. Abdomen cinereous; tip fawn-colour. Fore wings whitish on more than one-third of the breadth from the interior border; a round white apical spot; marginal dots black, elongated; ciliæ blackish cinereous; orbicular and reniform spots and transverse lines almost obsolete. Hind wings cinereous, with diffuse æneous borders. Length of the body $5\frac{1}{2}$ lines; of the wings 14 lines.

a. St. Domingo. From Mr. Tweedie's collection.

Dele XYLINA INFENSA.

The specimen described and HADENA TERENS, p. 586, are identical.

Page 631.

Dele XYLINA LIGNISECTA,

which is identical with the preceding species.

XYLINA SERRATA.

Mas. *Cinereo-nigra*; caput ferrugineum, fasciculatum; palpi porrecti, articulo 3o cylindrico brevissimo; antennæ subpectinatae; thorax cristatus, antice ferrugineus, nigro bifasciatus; abdomen cinereum; alæ anticæ apud marginem interiorem ferrugineæ, maculis discalibus obsoletis, guttis exterioribus elongatis nigris, margine exteriori denticulato; posticæ cinereæ, denticulatæ, margine fusciscente.

Var. *Thorax ferrugineo trivittatus*; alæ anticæ ferrugineo variæ.

Male. Cinereous-black. Head ferruginous, tufted. Palpi porrect; third joint cylindrical, not more than one-fourth of the length of the second. Antennæ slightly pectinated. Thorax with a high crest, ferruginous in front, and with two black bands, the hind one accompanied by whitish speckles. Abdomen cinereous. Fore wings ferruginous along the interior border; exterior border

deeply denticulated; discal spots obsolete; a row of exterior elongated black dots. Hind wings cinereous, denticulated, with brownish borders. Length of the body 7 lines; of the wings 18 lines.

Var. Thorax with three ferruginous stripes. Fore wings irregularly varied with ferruginous.

a, b. Tasmania. Presented by Morton Allport, Esq.

XYLINA? LIGNIPLENA.

Mas. *Ferruginea; palpi ascendentes, articulo 3o cylindrico subelongato; antennæ subpectinatæ; thorax nigro unifasciatus et quadrivittatus; abdomen basi subalbidum; alæ anticæ disci medio nigricante, lineis angulosis nigris pallido marginatis, orbiculari et reniformi parvis indistinctis pallido marginatis, venis nigricantibus, lunulis marginalibus nigris, margine vix denticulato; posticæ æneo-fuscæ, subtus pallidiores macula discali fasciaque lata submarginali nigricantibus.*

Male. Ferruginous. Palpi ascending, almost vertical; third joint cylindrical, full one-third of the length of the second. Antennæ slightly pectinated to three-fourths of the length. Thorax with a black band in front, and with two black stripes on each side. Abdomen paler than the thorax, almost whitish at the base. Fore wings somewhat blackish in the middle of the disk, with zigzag transverse black lines, which have pale borders, the latter most distinct in the submarginal line; orbicular and reniform spots with pale borders, small and indistinct, the latter with a white dot by its hind border; veins mostly blackish; a row of black lunules along the exterior border, which is hardly denticulated. Hind wings æneous-brown; under side paler, with a black basal streak, a black discal spot, a broad blackish submarginal band, and black marginal lunules. Length of the body 7 lines; of the wings 16 lines.

a. Tasmania. From Mr. A. J. Smith's collection.

Page 632.

Genus MAGUSA.

Mas. Corpus sat robustum. Proboscis brevis. Palpi ascendentes; articulus 3us longi-conicus, 2i trientis vix brevior. Antennæ simplices, gracillimæ, corporis dimidio non longiores. Abdomen alas posticas perpaullo superans. Pedes sat validi; tibiæ posticæ calcaribus quatuor longiusculis. Alæ anticæ angustæ,

apud costam rectæ, apice rotundatæ, margine exteriore mediocriter obliquo vix convexo.

Male. Body moderately stout. Proboscis short. Palpi ascending; third joint elongate-conical, nearly one-third of the length of the second. Antennæ simple, very slender, about half the length of the body. Abdomen extending very little beyond the hind wings. Legs moderately stout; hind tibiæ with rather long spurs. Fore wings narrow, straight in front, rounded at the tips, moderately oblique, and very slightly convex along the exterior border.

1. MAGUSA STRIGIFERA.

Mas. *Pallide cervina, subtus albida; alæ anticæ obscuriores, cano variæ, strigis paucis nigricantibus, macula apicali cana, lineis fusciscentibus undulatis indistinctis, guttis marginalibus elongatis, orbiculari et reniformi subrotundis; posticæ cinereæ, fusco marginatæ, ciliis albidis.*

Male. Pale fawn-colour, whitish beneath. Fore wings darker fawn-colour, varied with hoary, and with a few blackish streaks; a hoary apical spot emitting a streak, which inclines slightly towards the costa; transverse lines brownish, undulating, indistinct; marginal dots elongated, and forming a slightly interrupted blackish line; spots nearly round; orbicular about half the size of the reniform. Hind wings cinereous, with brown borders; ciliæ whitish. Length of the body 6 lines; of the wings 15 lines.

a. St. Domingo. From Mr. Tweedie's collection.

Page 660.

Genus RHATTA.

Mas. Corpus gracile. Proboscis mediocriter longa. Palpi oblique ascendentes; articulus 3us cylindricus, brevissimus. Antennæ subciliatæ, corporis dimidio longiores. Abdomen oblanceolatum, alas posticas plus triente superans; fasciculus apicalis longissimus. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ anticæ angustæ, apud costam rectæ, apice acuminatæ, margine exteriore perobliquo.

Male. Body slender. Proboscis moderately long. Palpi obliquely ascending; third joint cylindrical, about one-fourth of the length of the second. Antennæ minutely ciliated, more than half the length of the body. Abdomen oblanceolate, extending for more than one-third of its length beyond the hind wings; apical tuft very

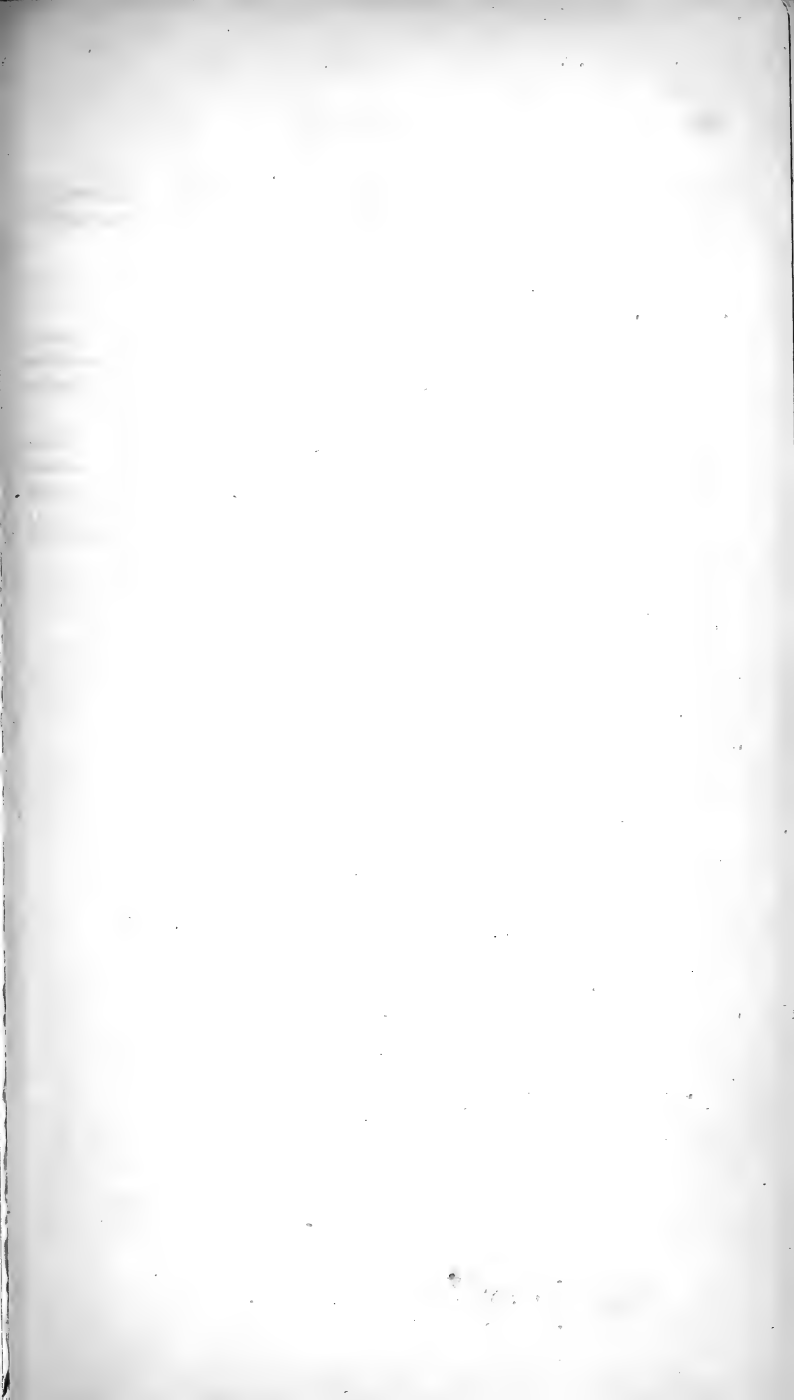
long. Legs slender; hind tibiæ with four long spurs. Fore wings narrow, straight in front, acuminate at the tips, very oblique along the exterior border.

1. RHATTA CRAMBOIDINA.

Mas. *Pallidissime cervina; abdomen albidum; alæ anticæ albidæ, cinereo marginatæ, vitta discali cervina arcuata dilatata antice nigro marginata, orbiculari et reniformi e guttis albidis nigro pupillatis; posticæ albidæ.*

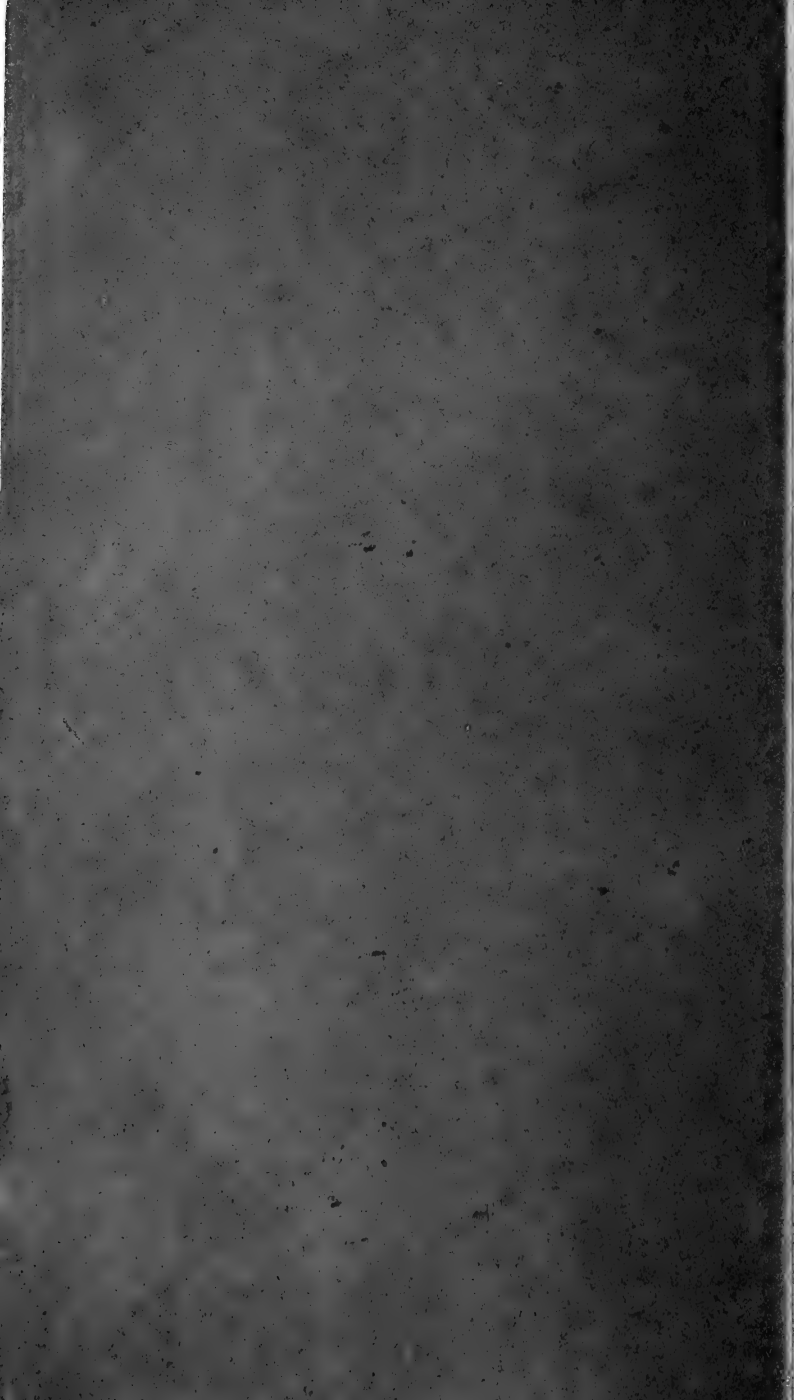
Male. Very pale fawn-colour. Abdomen whitish. Fore wings whitish, cinereous about the borders, with a fawn-coloured curved dilated discal stripe, which is bordered in front by a black line; orbicular and reniform spots indicated by two whitish dots with black centres. Hind wings whitish. Length of the body 7 lines; of the wings 14 lines.

a. Santarem. From Mr. Bates' collection.

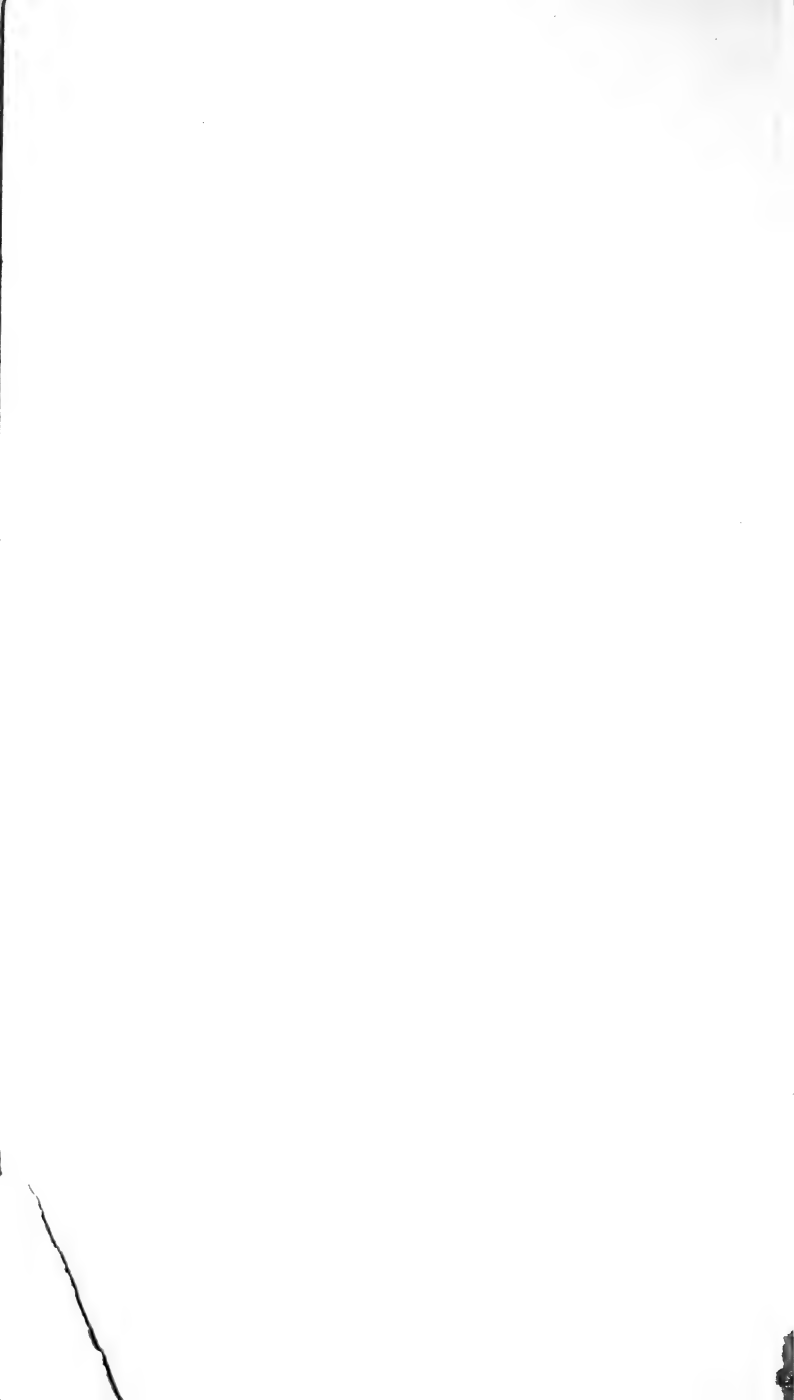












8 Insects
2d set

LIST

OF THE

SPECIMENS

OF

LEPIDOPTEROUS INSECTS

IN

THE COLLECTION

OF THE

BRITISH MUSEUM.

BY

FRANCIS WALKER, F.L.S., &c.

PART XII.—NOCTUIDÆ.

PRINTED BY ORDER OF THE TRUSTEES.
LONDON, 1857.

366

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P R E F A C E .

THE object of the present Catalogue is to give a complete list of all the genera and species of Noctuidæ known to exist in the different collections. The letters *a, b, c, &c.*, after the species, denote the specimens now contained in the British Museum, followed by the *habitat* and the mode in which each of them was obtained, and the absence of these *letters* indicates the species which are desiderata, and therefore desirable to be procured for the collection.

JOHN EDWARD GRAY.

British Museum,
July 7, 1857.



CATALOGUE

OF

LEPIDOPTERA HETEROCERA.

THIRD SERIES.

Subdiv. 3. TRIFIDÆ MINORES.

A. Corpus crassum, aut vix gracile.

A. Proboscis brevissima, aut brevis.

Fam. 1. HEMEROSIDÆ, *Guen.*

B. Proboscis mediocris. - - - Fam. 2. ACONTIDÆ, *Guen.*

B. Corpus gracile.

A. Palpi conspicui.

A. Structura phalæniformis. Abdomen sæpe cristatum. Alæ
anticæ areolatæ. - - - Fam. 3. ERASTRIDÆ, *Guen.*

B. Structura pyraliformis aut tortriciformis. Abdomen læve.
Alæ anticæ non areolatæ. Fam. 4. ANTHOPHILIDÆ, *Guen.*

B. Palpi subobsoleti. - - - Fam. 5. PHALÆNOIDÆ, *Guen.*

The characters of the families are here sufficiently indicated, there being few, or none, which are common to all the genera in each family except those above-mentioned.

Fam. 1. HÆMEROSIDÆ.

Heliothidæ, p., *Boisd.*

Noctuo-Phalænidi, *Guen. Ann. Soc. Ent. Fr.* x. 220.

Hæmerosidæ, *Guen. Noct.* ii. 200.

A. Proboscis brevis.

A. Palporum articulus 3us brevissimus.

A. Palpi caput non superantes. - - 3. EUGOA, *Walk.*

B. Palpi caput sat superantes. - - 4. ARIOLA, *Walk.*

B. Palporum articulus 3us longus - - 5. APHUSIA, *Walk.*

B. Proboscis brevissima.

A. Palpi caput superantes.

A. Palporum articulus 3us brevissimus. 1. HÆMEROSIA, *Boisd.*

B. Palporum articulus 3us longiusculus. 2. LEPIDOMYS, *Guen.*

B. Palpi caput non superantes. - - 6. DERRIMA, *Walk.*

C. Proboscis obsoleta. - - - - 7. GAVARA, *Walk.*

Genus 1. HÆMEROSIA.

Corpus gracile. Proboscis brevissima. Palpi validi, porrecti, caput sat superantes; articulus 3us minutus, conicus, brevissimus. Antennæ corporis dimidio non longiores. Abdomen alas posticas non superans. Pedes mediocriter validi; tibiæ posticæ calcaribus longis. Alæ latiusculæ, late ciliatæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori perparum obliquo. *Mas.*—Antennæ subpectinatæ.

Hæmerosia, *Boisd.*; *Guen. Ann. Soc. Ent. Fr.* x. 230; *Noct.* ii 200.

Synphe, p., *Hübner. Verz. Schmett.* 347.

Body slender. Proboscis very short. Palpi stout, porrect, extending some distance beyond the head; third joint minute, conical, not more than one-sixth of the length of the second. Antennæ not more than half the length of the body. Abdomen not extending beyond the hind wings. Legs moderately stout; hind tibiæ with four long spurs. Wings rather broad, deeply ciliated. Fore wings straight in front, rounded at the tips, very slightly oblique along the exterior border. *Male.*—Antennæ slightly pectinated.

1. HÆMEROSIA RENALIS.

Cervina; *alæ anticæ extus pallidiores, linea transversa media obscuriore albo marginata, striga transversa discali alba.*

Pylalis renalis, *Hübner. Eur. Schmett. Pylal.* f. 157.

Noctua renalis, *Hübner. Eur. Schmett. Noct.* f. 864, 865.

Synaphe renalis, *Hübner. Verz. Schmett.* 347, 2325.

Hæmerosia renifera, *Boisd. Ind. Méth.* 164, 1313.

Hæmerosia renigera, *Dup. Suppl.* iii. 570, pl. 47, f. 7.

Hæmerosia renalis, *Guen. Noct.* ii. 201, 965.

South France.

a—d. Europe. From M. Becker's collection.

Genus 2. LEPIDOMYS.

Corpus vix crassum. Frons fasciculata. Proboscis brevissima. Palpi longi, porrecti, caput longe superantes; articulus 3us lanceolatus, 2i dimidio vix brevior. Antennæ validæ, simplices. Abdomen alas posticas vix superans. Pedes validi; tibiæ posticæ calcariis longis. Alæ latæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori subobliquo.

Lepidomys, *Guen. Noct.* ii. 201.

Body hardly stout. Head with a tuft in front. Proboscis very short. Palpi long, porrect, extending far beyond the head; third joint lanceolate, about half the length of the second. Antennæ stout, simple. Abdomen hardly extending beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings broad. Fore wings straight in front, angular at the tips, slightly oblique along the exterior border.

1. LEPIDOMYS IRRENOSA.

Cervina; *alæ anticæ plaga basali strigisque duabus costalibus albis, linea exteriori transversa nigricante; posticæ flavescens, margine latissimo cervino.*

Lepidomys irrenosa, *Guen. Noct.* ii. 202, 966.

a. New York. Presented by E. Doubleday, Esq.

Genus 3. EUGOA.

Mas. Corpus robustum. Proboscis brevis. Palpi graciles, porrecti, caput non superantes; articulus 3us conicus, minimus. Antennæ graciles, subsetosæ, corporis dimidio longiores. Abdomen alas posticas non superans. Pedes longiusculi, sat graciles; tibiæ posticæ calcaribus longis. Alæ longiusculæ, sat angustæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori mediocriter obliquo.

Male. Body stout. Proboscis short. Palpi slender, porrect, not extending beyond the head; third joint conical, very minute, not more than one-sixth of the length of the second. Antennæ slender, very minutely setose, more than half the length of the body. Abdomen not extending beyond the hind wings. Legs rather long and slender; hind tibiæ with long slender spurs. Wings rather long and narrow. Fore wings straight in front, rounded at the tips, moderately oblique along the exterior border.

1. EUGOA ÆQUALIS.

Alba; caput purpureo biguttatum; thorax purpureo bifasciatus; abdomen flavescens; alæ anticæ lituris duabus basalibus nigris, fasciis duabus apud medium contractis lineaque submarginali fuscis, margine exteriori cinereo; posticæ flavescens.

White. Head with two purple dots on the vertex. Thorax with two purple bands. Abdomen yellowish. Fore wings with two black marks at the base, and with two brown bands which are much contracted in the middle, their hind part diffuse; submarginal line brown, irregular; exterior border cinereous. Hind wings and legs yellowish. Length of the body 4 lines; of the wings 11 lines.

a. Borneo. From Mr. Wallace's collection.

Genus 4. ARIOLA.

Corpus vix robustum. Proboscis brevis. Palpi vix ascendentes, caput sat superantes; articulus 2us longus, apice dilatatus; 3us minimus. Antennæ validæ, simplices, corpore paullo breviores. Abdomen cylindricum, alas posticas paullo superans. Pedes sat validi; tibiæ posticæ calcaribus longissimis. Alæ sat angustæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori convexo perparum obliquo.

Body hardly stout. Proboscis short. Palpi very slightly ascending, extending some distance beyond the head; second joint long, dilated towards the tip; third very minute, not more than one-sixth of the length of the second. Antennæ stout, simple, three-fourths of the length of the body. Abdomen cylindrical, extending for one-fourth of its length beyond the hind wings. Legs rather stout; hind tibiæ with four very long spurs. Wings rather narrow. Fore wings straight in front, rounded at the tips, convex and very slightly oblique along the exterior border.

1. ARIOLA CÆLISIGNA.

Cinerea; caput, palpi et thorax anticus fusca; antennæ nigricantes; alæ anticæ virides, antice saturatiores, vitta media argentea, fascia marginali purpurea lineas marginalem et submarginalem atras includente, hac submaculari; posticæ nigro-cinereæ.

Cinereous. Head, palpi and fore part of the thorax brown. Antennæ blackish. Fore wings green, with a silvery white middle stripe, in front of which the green is much deeper than elsewhere; a bright purple marginal band including the deep black marginal and submarginal lines, the latter almost macular. Hind wings blackish cinereous. Length of the body 4—4½ lines; of the wings 9—10 lines.

- a. Ceylon. Presented by R. Templeton, Esq.
- b. Ceylon. From Mr. Cuming's collection.
- c. Sarawak, Borneo. From Mr. Wallace's collection.

Genus 5. APHUSIA.

Mas. Corpus sat validum. Proboscis brevis. Palpi subdecumbentes, longiusculi, sat graciles, caput longe superantes; articulus 3us cylindricus, 2o vix brevior. Antennæ simplices, corporis dimidio valde longiores. Abdomen alas posticas perpaullo superans. Pedes sat validi; tibiæ posticæ calcaribus longis. Alæ anticæ sat angustæ, apud costam perparum convexæ, apice subrotundatæ, margine exteriori subobliquo.

Male. Body moderately stout. Proboscis short. Palpi rather long and slender, slightly decumbent, extending far beyond the head; third joint cylindrical, almost as long as the second. Antennæ simple, much more than half the length of the body. Abdo-

men extending very little beyond the hind wings. Legs rather stout; hind tibiæ with long spurs. Fore wings rather narrow, very slightly convex in front, slightly rounded at the tips, slightly oblique along the exterior border.

1. APHUSIA SPEIPLANA.

Alba; alæ anticæ læte virides, costa, vitta ciliisque albis; posticæ margine angusto fusciscente.

White. Fore wings bright grass-green, white along the costa, and with a white posterior stripe which does not extend to the exterior border; ciliæ white. Hind wings with slender brownish borders. Length of the body 4 lines; of the wings 10 lines.

a. Punjab. Presented by General Hearsay.

Genus 6. DERRIMA.

Corpus sat robustum. Proboscis brevissima. Palpi breves, porrecti, caput non superantes; articulus 3us minutus, conicus. Antennæ simplices, corporis dimidio vix longiores. Abdomen alas posticas non superans. Pedes validi; tibiæ posticæ calcaribus longissimis. Alæ sat latæ, dense vestitæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriore sat obliquo.

Body moderately stout. Proboscis very short. Palpi short, correct, not extending beyond the head; third joint minute, conical, not more than one-fourth of the length of the second. Antennæ simple, hardly more than half the length of the body. Abdomen not extending beyond the hind wings. Legs stout; hind tibiæ with very long spurs. Wings moderately broad, thickly clothed. Fore wings straight in front, rounded at the tips, rather oblique along the exterior border.

1. DERRIMA STELLATA.

Rosea; alæ anticæ disco luteo guttis albis oblique marginato, maculis duabus discalibus albis nigro marginatis, ciliis subpurpureis; posticæ basi testaceæ.

Rosy. Fore wings with a luteous disk, which contains two white black-bordered spots, and is obliquely bounded towards the exterior border by a row of white dots; ciliæ purplish. Hind wings

testaceous towards the base. Length of the body 4 lines; of the wings 12 lines.

a. United States. Presented by E. Doubleday, Esq.

Genus 7. GAVARA.

Corpus sat robustum, dense vestitum. Proboscis obsoleta. Palpi ascendentes, longiusculi; articulus 3us lanceolatus, 2i dimidio non brevior. Antennæ validæ, simplices, corporis dimidio valde longiores. Abdomen alas posticas non superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ latiusculæ; anticæ dense vestitæ, apud costam subrectæ, apice rotundatæ, margine exteriore subobliquo.

Body moderately stout, thickly clothed. Proboscis obsolete. Palpi ascending, moderately long; third joint lanceolate, about half the length of the second. Antennæ stout, simple, much more than half the length of the body. Abdomen not extending beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings rather broad. Fore wings thickly clothed, almost straight in front, rounded at the tips, slightly oblique along the exterior border.

1. GAVARA VELUTINA.

Fulva, ex parte testacea; alæ anticæ lanuginosæ, margine exteriore pallide testaceo, fasciis tribus latis nitentibus pallide purpureis; posticæ nitentes, margine pallidiore.

Tawny, partly testaceous. Fore wings somewhat lanuginous, pale testaceous along the exterior border, with three broad irregular shining pale purplish bands. Hind wings shining, paler about the borders. Length of the body 3 lines; of the wings 8 lines.

a. Port Natal. From M. Gueinzus' collection.

Fam. 2. ACONTIDÆ.

Acontidi, *Boisd.*; *Guen. Ann. Soc. Ent. Fr.* x. 219.

Acontidæ, *Guen. Noct.* ii. 203.

A. Alæ non dense squamosæ.

A. Palporum articulus 2us 3o quadruplo longior.

A. Tibiæ posticæ non fasciculatæ.

a. Alæ anticæ apice angulatæ.

- i. Palpi caput vix superantes. - 6. EUPHASIA, *Steph.*
- ii. Palpi caput sat superantes. - 8. NIPISTA, *Walk.*
- b. Alæ anticæ apice rotundatæ.
 - i. Antennæ maris simplices.
 - * Abdomen maris apice subcompressum. 3. EUGRAPHIA, *Guen.*
 - ** Abdomen maris non compressum. 7. ACONTIA, *Ochs.*
 - ii. Antennæ maris pectinatæ. - 9. CAULARIS, *Walk.*
- B. Tibiæ posticæ fasciculatæ. - - 10. DACIRA, *Walk.*
- B. Palporum articulus 3us 2i triente non brevior.
 - a. Frons fasciculata. - - - 2. METOPONIA, *Dup.*
 - b. Frons non fasciculata. - - 1. AGROPHILA, *Guen.*
 - c. Palporum articulus 3us 2i dimidio longior.
 - 4. XANTHODES, *Guen.*
- B. Alæ dense squamosæ. - - - 5. LEOCYMA, *Guen.*

Genus 1. AGROPHILA.

Corpus vix robustum. Proboscis breviuscula. Palpi porrecti, caput paullo superantes; articulus 3us lanceolatus, 2i triente non brevior. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas non superans. Pedes sat validi; tibiæ posticæ calcaribus longissimis. Alæ latiusculæ; anticæ apud costam subrectæ, apice rotundatæ, margine exteriori subobliquo.

Agrophila, *Guen. Ann. Soc. Ent. Fr.* x. 228; *Noct.* ii. 204.

Phytometra, p., *Haw.*

Erastria, p., *Treit.*; *Steph.*; *Curt.*

Emmelia, p., *Hübner. Verz. Schmett.* 254.

Agrophila, p., *Boisd.*

Body hardly stout. Proboscis rather short. Palpi porrect, extending a little beyond the head; third joint lanceolate, about one-third of the length of the second. Antennæ simple, more than half the length of the body. Abdomen not extending beyond the hind wings. Legs moderately stout; hind tibiæ with four very long spurs. Wings rather broad. Fore wings nearly straight in front, rounded at the tips, slightly oblique along the exterior border.

Europe.

1. AGROPHILA SULPHURALIS.

Nigro-fusca ; caput antice thoracisque latera albo-flava ; abdomen cinereum ; alæ anticæ vitta costali excavata maculasque includente, vitta postica fasciisque duabus exterioribus albo-flavis ; posticæ fusco-cinereæ, ciliis albidis.

- , Geoffr. *Ins. Par.* ii. 184. *Engr. Pap. d'Eur.* 598, a, b. Schæff. *Icon.* i. pl. 9, f. 14, 15.
- Phalæna-Pyralis sulphuralis, Bergstr. *Ins. Suec.* i. 16. Gmel. *ed. Syst. Nat.* i. 5, 2521, 333. Fuessl. *Ins.* 812.
- Noctua sulphurea, Wien. *Verz.* 93, 6. Esp. Schmett. iv. pl. 164, f. 6. Bork. *Eur. Schmett.* iv. 806, 372. Hübn. *Eur. Schmett. Noct.* pl. 60, f. 291. Dup. *Hist. Nat. Léop. Fr.* vii. 459, pl. 123, f. 3.
- Bombyx lugubris, Fabr. *Ent. Syst.* iii. 1, 467, 188. Donovan. *Brit. Ins.* x. pl. 339.
- Pyralis trabealis, Scop. *Ent. Carn.* 610. Vill. *Ent.* 807.
- Noctua trabeata, Scriba, *Beitr.* pl. 10, f. 8.
- Noctua arabica, Berl. *Mag.* iii. 412. Bork. *Eur. Schmett.* 807, 373.
- Emmelia sulphurea, Hübn. *Verz. Schmett.* 254, 2509.
- Erastria sulphurea, Treit. *Schmett.* v. 251, 1.
- Erastria sulphuralis, Steph. *Ill. Brit. Ent.* iii. 117.
- Phytometra sulphurea, Haw. *Lep. Brit.* 262.
- Anthophila sulphurea, Meig. *Handb.* 184, 98, pl. 13, f. 11 ; *Syst. Besch.* iii. 242, 9, pl. 120, f. 1.
- Agrophila sulphurea, Boisd. *Ind. Méth.* 175, 1400.
- Agrophila sulphuralis, Guen. *Noct.* ii. 206, 971.
- a—h. England. From Mr. Stephens' collection.
- i—l. England.
- m, n. Europe. From M. Becker's collection.

North America.

2. AGROPHILA LEO.

Cinereo-plumbea ; prothorax et tegulæ fulva ; abdomen subtus sulphureum, apice fulvum ; alæ anticæ ochraceæ, basi costaque sulphureis, maculis quatuor ciliisque nigro-plumbeis, his apud angulum internum fulvis ; posticæ nigro-cinereæ.

Agrophila Leo, Guen. *Noct.* i. 205, 968.

North America.

3. AGROPHILA DAMA.

Fulva; tegulæ cinereo maculatæ; alæ anticæ ochraceæ, maculis tribus albo-flavis, fasciis tribus nigro-plumbeis; posticæ nigro-cinereæ.

Agrophila Dama, *Guen. Noct.* ii. 205, 969.

North America.

4. AGROPHILA ONAGRUS.

Crocea; thoracis discus cupreo-niger; abdomen cinereum; alæ anticæ cupreo-nigræ, costa strigaeque postica albidis, fasciis duabus exterioribus antice connexis croceis, maculis costalibus nigro-cupreis; posticæ fusco-cupræ.

Agrophila Onagrus, *Guen. Noct.* ii. 205, 970.

a. United States. Presented by E. Doubleday, Esq.

South America

5. AGROPHILA LEPUUS.

Fusca; thorax flavo varius; alæ anticæ nebulis maculis duabus costalibus ciliisque anticis flavis, his nigro unimaculatis; posticæ nigro-cinereæ, apud discum pallidiores.

Agrophila Lepus, *Guen. Noct.* ii. 204, 967.

Brazil.

6. AGROPHILA ZEBRA.

Purpurea; thoracis latera alba; abdomen albido fasciatum; alæ anticæ fasciis tribus albidis, 1a 2aque interruptis, 3a annulum fusiformem incompletum fingente, linea submarginali albida; posticæ ochraceæ, purpureo marginatæ.

Purple. Thorax white along each side. Abdomen with whitish bands. Fore wings with three whitish bands, of which the first and the second are interrupted, and the third forms an incomplete fusiform ringlet, of which the fore end joins the second band, and the hind end is dilated; submarginal line whitish. Hind wings bright orange, with narrow purple borders. Length of the body 3 lines; of the wings 8 lines.

a. Valley of the Amazon. From Mr. Bates' collection.

Genus 2. METOPONIA.*

Corpus sat gracile. Frons fasciculata. Proboscis mediocriter longa. Palpi graciles, porrecti, caput paullo superantes; articulus 3us cylindricus, 2i triente non brevior. Antennæ simplices, corporis dimidio perparum longiores. Pedes sat graciles; tibiæ calcaribus longis. Alæ latiusculæ; anticæ apud costam rectæ, apice acutæ, margine exteriori perparum convexo non obliquo. *Mas.*—Abdomen alas posticas per paullo superans. *Fæm.*—Abdomen alas posticas non superans.

Metoponia, *Dup. Cat.*; *Guen. Noct.* ii. 206.

Anthophila, p., *Treit.*; *Boisd.*

Body rather slender. Head tufted in front. Proboscis moderately long. Palpi slender, porrect, extending a little beyond the head; third joint cylindrical, about one-third of the length of the second. Antennæ simple, very little more than half the length of the body. Legs rather slender; hind tibiæ with four long spurs. Wings rather broad. Fore wings straight in front, acute at the tips, very slightly convex, and not oblique along the exterior border. *Male.*—Abdomen extending very little beyond the hind wings. *Female.*—Abdomen not extending beyond the hind wings.

1. METOPONIA FLAVIDA.

Alba, testaceo subincta; abdomen canescens; alæ anticæ gutta discali nigra; posticæ cinereæ, ciliis albis.

Noctua flava, *Hübner. Eur. Schmett. Noct.* f. 453.

Anthophila flava, *Ochs. Schmett.* 81, 4. *Treit. Schmett.* v. 279.

Dup. Suppl. iii. 537, pl. 45. *Frey. Beitr.* iii. pl. 227.

Eversm. Faun. Volg-Ural. 338.

Agrophila flava, *Boisd. Ind. Méth.* 175, 1401.

Tortrix Kœkeritziana, *Hübner. Eur. Schmett. Tort.* 165.

Ægle flava, *Hübner. Verz. Schmett.* 257, 2535.

Metoponia flava, *Guen. Noct.* ii. 207, 972.

South-East Europe.

a. Europe. From M. Becker's collection.

* Genus Dipterorum.

2. METOPONIA VESPERTINA.

Pallide straminea; *alæ anticæ fascia margineque flavescens*, puncto discali fusco; *posticæ fascia diffusa margineque subcervinis*.

Pyralis vespertalis, Hübn. *Eur. Schmett. Pyral.* f. 159.

Evergestis vespertalis, Hübn. *Verz. Schmett.* 354, 3383.

Anthophila vespertina, Treit. *Schmett.* v. 280. *Boisd. Meth.* 174, 1388. *Dup. Suppl.* iv. 235, pl. 70. *Herr.-Schæff. Schmett. Eur.* ii. pl. 51, f. 260.

Metoponia? *vespertina*, Guen. *Noct.* ii. 208, 973.

Dalmatia. Spain.

Genus 3. EUGRAPHIA.

Corpus robustum. Proboscis brevis. Palpi porrecti, parvi, caput vix superantes; articulus 3us conicus, minimus. Antennæ simplices, corporis dimidio valde longiores. Abdomen alas posticas non superans. Pedes sat validi; tibiæ posticæ calcaribus longis. Alæ non latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriore sat obliquo. *Mas.*—Abdomen apice subattenuatum, subcompressum.

Body stout. Proboscis short. Palpi porrect, small, hardly extending beyond the head; third joint conical, very minute, less than one-fourth of the length of the second. Antennæ simple, much more than half the length of the body. Abdomen not extending beyond the hind wings. Legs rather stout; hind tibiæ with long spurs. Wings not broad. Fore wings straight in front, rounded at the tips, rather oblique along the exterior border. *Male.*—Abdomen slightly attenuated and compressed towards the tip.

1. EUGRAPHIA IRRETITA.

Albo-flava; *abdomen luteum*; *alæ anticæ lineis tribus postice connexis lineolisque tribus posterioribus nigris, extus cupreo-fusca fasciis duabus connexis luteis*; *posticæ maris alba luteo marginatæ, sæminæ luteæ, fascia cupreo-fusca*.

Noctua irretita, Hübn. *Zeitr.* f. 305, 306.

Eugraphia irretita, Guen. *Noct.* ii. 208, 974.

Noctua melanogramma, Perty, *Del. Anim. Artic. Braz.* pl. 32, f. 10, p. 163.

a. Brazil. Presented by E. Doubleday, Esq.

Genus 4. XANTHODES.

Corpus robustum. Proboscis mediocriter longa. Palpi longi, cylindrici, ascendentes; articulus 3us 2i dimidio longior. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas non aut vix superans. Pedes sat validi; tibiæ ciliatæ, posticæ calcaribus longis. Alæ latæ, sæpissime flavæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriori subobliquo.

Xanthodes, *Guen. Noct.* ii. 209.

Acontia, *Hübner*; *Trait.*; *Boisd.*; *Dup.*

Body robust. Proboscis moderately long. Palpi cylindrical, long, obliquely ascending above the head; third joint more than half the length of the second. Antennæ simple, more than half the length of the body. Abdomen not or hardly extending beyond the hind wings. Legs rather stout; tibiæ ciliated; hind tibiæ with long spurs. Wings broad, generally yellow. Fore wings straight in front, slightly rounded at the tips, slightly oblique along the exterior border.

Europe.

1. XANTHODES MALVÆ.

Testacea; alæ anticæ flavæ, fusco nebulosæ, lineis tribus transversis angulatis obscurioribus, guttis marginalibus nigris; posticæ albidæ, margine lato cervino.

Noctua Malvæ, *Esp. Schmett.* iv. pl. 195, f. 4. *Hübner*. *Eur. Schmett. Noct.* pl. 77, f. 358.

Acontia Malvæ, *Hübner*. *Verz. Schmett.* 257, 2534. *Trait. Schmett.* v. 238, 1. *Boisd. Ind. Méth.* 165, 1316. *Dup. Suppl.* iii. 533, pl. 45, f. 2. *Herr.-Schæff. Schmett. Eur.* ii. pl. 44, f. 221.

Anthophila Malvæ, *Meig. Syst. Besch.* iii. 240, 4, pl. 114, f. 9.

Xanthodes Malvæ, *Guen. Noct.* ii. 210, 975.

Sicily.

2. XANTHODES GRAELLSII.

Læte flava; caput album, subtus fuscum; proboscis testacea; palpi albi, supra apiceque fuscis; antennæ fusæ, basi albæ; abdomen album; alæ anticæ vitta discali exteriori guttisque tribus subcostalibus ferrugineo-fuscis, margine exteriori ciliisque nigro-cinereis; posticæ albæ, cervino marginatæ.

Acontia Graellsii, *Feisthamel, Ann. Soc. Ent. Fr.* vi. 300, pl. 12, f. 3. *Ramb. Dup. Suppl.* iii. 535, pl. 45. *Boisd. Ind. Méth.* 165, 1317.

Xanthodes Graellsii, *Guen. Noct.* ii. 211, 977.

Mauritius. Hindostan.

a, b. Spain. From M. Becker's collection.

Asia.

3. XANTHODES STRAMEN.

Albo-flava; *antennæ ferrugineæ*; *alæ anticæ punctis paucis nigris*, *maculis costalibus*, *linea transversa exteriore fasciæque marginali fuscis*, *guttis duabus posticis marginalibus unaque subapicali nigris*.

Xanthodes stramen, *Guen. Noct.* ii. 210, 976.

Thibet.

4. XANTHODES TRANSVERSA.

Flava; *palpi*, *abdomen et alarum anticarum lineæ transversæ angulatæ pallidissime cervina*; *alæ anticæ plaga maxima marginali fuscescente*, *gutta apicali nigricante*; *posticæ pallidissime luteæ*. *Var. Alæ anticæ vitta latissima ferrugineo-fusca*; *posticæ lutescentes*.

Noctua flava?? *Fabr. Ent. Syst.* iii. 2, 211, 978.

Xanthodes transversa, *Guen. Noct.* ii. 211, 978.

a, b. Hindostan. From Archdeacon Clerk's collection.

c, d. North India. From Mr. James' collection.

e. North India. From Mr. Stevens' collection.

5. XANTHODES INTERSEPTA.

Flava; *palpi*, *thoracis vitta et alarum anticarum lineæ transversæ angulatæ cervinæ*; *alæ anticæ vitta nonnunquam obsoleta*, *plagaque maxima marginali fuscescentibus*, *gutta apicali nigricante*; *posticæ subluteæ*.

Xanthodes intersepta, *Guen. Noct.* ii. 212, 979.

This species is very nearly allied to the preceding one, but may be distinguished by its shorter and more rounded fore wings.

- a. Ceylon. Presented by R. Templeton, Esq
 b. Hindostan. From Archdeacon Clerk's collection.
 c—e. North India. From Mr. Stevens' collection.
 f, g. North India. From Mr. James' collection.
 h, i. Silhet. From Mr. Sowerby's collection.
 j, k. Malta. Presented by Miss E. Attersoll.

Australia.

6. XANTHODES MIGRATOR.

Mas. *Flava; alæ anticæ lineis tribus valde angulatis plagaque magna marginali cervinis, puncto subapicali nigro; posticæ lutescentes.*

Male. Yellow. Abdomen pale fawn-colour. Fore wings with a few blackish speckles, and with three very angular transverse fawn-coloured lines; a large fawn-coloured patch on the exterior border, and a minute subapical black dot. Hind wings somewhat luteous. Length of the body 8 lines; of the wings 18 lines.

a, b. Moreton Bay. From Mr. Stevens' collection.

Africa.

7. XANTHODES? ARCUATA.

Pallidissime lutea; abdomen pallide testaceum; alæ anticæ angustæ, apud costam perparum convexæ, apice subrotundatæ, margine exteriori convexo; posticæ albæ, testaceo marginatæ.

Very pale luteous. Abdomen pale testaceous. Fore wings narrow, very slightly convex in front; apical angle somewhat rounded; exterior border convex, very slightly oblique. Hind wings white, with testaceous borders. Length of the body 5 lines; of the wings 12 lines.

a. Congo. Presented by Sir J. Richardson.

Genus 5. LEOCYMA.

Proboscis valida, sat longa. Palpi graciles, arcuati, ascendentes; articulus 2us cylindricus, 3o conico vix crassior. Antennæ graciles, filiformes, vix pubescentes. Thorax robustus, squamosus, rotundatus, nitens, unicolor. Abdomen obconicum, læve, subvillosum.

Pedes sat validi. Alæ densæ, squamosæ; anticæ oblongæ, nitentes, vix notatæ, apice rotundatæ.

Leocyma, *Guen. Noct.* ii. 212.

Proboscis stout, moderately long. Palpi slender, curved, ascending, resting on the front; second joint cylindrical, hardly thicker than the third, which is conical. Antennæ slender, filiform, hardly pubescent. Thorax robust, squamose, rounded, shining, of one colour. Abdomen obconical, smooth, slightly villose. Legs of moderate length and thickness. Wings thick, squamose. Fore wings oblong, rounded, shining, without distinct lines.

1. LEOCYMA APOLLINIS.

Ochraceo-flava; alæ anticæ punctis duobus nigris, uno basali, altero discali. Mas.—Pedes antici pilis cinereis dense vestiti.

Leocyma Apollinis, *Guen. Noct.* ii. 212, 980.

Africa?

2. LEOCYMA VESTÆ.

Nivea, nitens; frons, palpi apice, antennæ et tibiæ anticæ ochraceo nebulosæ; tarsi nigro punctati.

Leocyma Vestæ, *Guen. Noct.* ii. 212, 981.

Senegal.

3. LEOCYMA DIANÆ.

Nivea, nitens, L. Vestæ simillima, major; alæ anticæ apice acutiores, punctis marginalibus nigris; tarsi ochracei, nigro guttati.

Leocyma Dianæ, *Guen. Noct.* ii. 213, 982.

Australia.

Genus 6. EUPHASIA.

Corpus robustum. Proboscis longiuscula. Palpi porrecti, caput vix superantes; articulus 3us conicus, minimus. Antennæ simplices, corporis dimidio valde longiores. Abdomen alas posticas vix superans. Pedes sat validi; tibiæ posticæ calcaribus longissimis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori sat obliquo.

Euphasia, Steph. *Ill. Brit. Ent. Haust.* iii. 116. Guen. *Noct.* ii. 213.

Body stout. Proboscis rather long. Palpi porrect, hardly extending beyond the head; third joint conical, very minute, not more than one-sixth of the length of the second. Antennæ simple, much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs moderately stout; hind tibiæ with very long spurs. Wings moderately broad. Fore wings straight in front, angular at the tips, rather oblique along the exterior border.

1. EUPHASIA CATENA.

Alba; alæ anticæ plagi duabus costalibus fasciæque submarginali glauco-fuscescentibus, maculis marginalibus obscurioribus; posticæ fusco plus minusve marginatæ.

Noctua catena, Sowerby, *Brit. Misc.* 29, pl. 14 Haw. *Lep. Brit.* 184.

Acontia catena, Curt. *Brit. Ent.* pl. 276.

Euphasia catena, Steph. *Ill. Brit. Ent. Haust.* iii. 116. Guen. *Noct.* ii. 214, 983.

Desmophora elegans, Steph. *Cat. Brit. Ins.* 6398.

a. Punjaub. Presented by General Hearsay.

b. North Hindostan. From Mr. James' collection.

Genus 7. ACONTIA.

Corpus sat robustum. Proboscis breviuscula. Palpi breviusculi, subascendentes; articulus 3us conicus, minimus. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas non superans. Pedes sat graciles; tibiæ posticæ calcaribus longis aut longissimis. Alæ latiusculæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriore perparum obliquo.

Acontia, Ochs.; Treit.; Boisd.; Steph.; Dup.; Guen. *Ann. Soc. Ent. Fr.* x. 220; *Noct.* ii. 214.

Body rather stout. Proboscis rather short. Palpi rather short, slightly ascending; third joint minute, conical, less than one-fourth of the length of the second. Antennæ simple, much more than half the length of the body. Abdomen not extending beyond the hind wings. Legs rather slender; hind tibiæ with long or very

long spurs. Wings rather broad. Fore wings straight in front, rounded at the tips, very slightly oblique along the exterior border.

Europe.

1. ACONTIA VIRIDISQUAMA.

Nigro-fusca; alæ anticæ squamis basalibus et medianis viridibus, strigis tribus costalibus basalibus albis, reniformi pallida vaga nigro signata, linea submarginali vaga e squamis viridibus, maculis duabus ciliaribus albo-viridibus; posticæ nigræ, ciliis albo-viridibus.

Acontia viridisquama, *Guen. Noct.* ii. 219, 994.

Spain.

2. ACONTIA ALBICOLLIS.

Cinerea; alæ anticæ cinereo-fuscæ, basi albæ cinereo variæ, linea undulata guttisque marginalibus nigris, plaga costali ciliisque posticis albis; posticæ fuscæ, fascia excisa aut interrupta alba.

———, *Engr. Pap. d'Eur.* 559, a, b.

Noctua albicollis, *Fabr. Sp. Ins.* ii. 218, 48; *Mant. Ins.* ii. 144, 71; *Ent. Syst.* iii. 2, 36, 94. *Rossi, Faun. Etr.* 1107.

Phalæna-Noctua albicollis, *Gmel. ed. Syst. Nat.* i. 5, 2551, 1084.

Noctua Solaris, *Esp. Schmett.* iv. pl. 88, f. 2, 3. *Dup. Hist. Nat. Léop. Fr.* vii. pl. 121, f. 2.

Tarache insolatrix, *Hübner Verz. Schmett.* 261, 2565.

Acontia Solaris, *Treit. Schmett.* v. 246. *Steph. Ill. Brit. Ent. Haust.* iii. pl. 20, f. 3. *Boisd. Ind. Méth.* 165, 1322.

Acontia albicollis, *Guen. Noct.* ii. 220, 995.

This is probably a variety of the following species, or else it includes all the specimens registered under the latter.

a—d. England. From Mr. Stephens' collection.

3. ACONTIA SOLARIS.

Cinereo-fusca; thorax fascia antica vittisque duabus albis; abdomen cingulis albis; alæ anticæ basi albæ cinereo variæ gutta nigra, macula costali strigaeque postica marginali lunulisque submarginalibus albis, annulo discali lineaque submarginali glaucescentibus; posticæ disco plus minusve ciliisque albis.

———, *Engr. Pap. d'Eur.* 560, c, d. *Geoffr. Ins. Par.* ii. 163.

Noctua Solaris, *Wien. Verz.* 90, 8. *Esp. Schmett.* iv. pl. 88, f. 2, 3. *Bork. Eur. Schmett.* iv. 79, 30. *Hübner. Eur. Schmett. Noct.* pl. 62, f. 307, 308.

Noctua albicollis, *Dup. Hist. Nat. Léop. Fr.* vii. 346, pl. 121, f. 1.

Tarache Solaris, *Hübner. Verz. Schmett.* 261, 2564.

Acontia Solaris, *Treit. Schmett.* v. 244, 6. *Frey. Neue Beitr.* pl. 345; *Ent. Zeit. Stett.* ii. 110. *Boisd. Ind. Méth.* 165, 1322. *Guen. Noct.* ii. 221, 996.

Heliothisa Solaris, *Meig. Syst. Besch.* iii. 226, 6, pl. 114, f. 6.

a—d. England. From Mr. Stephens' collection.

e. Italy. Presented by Dr. Dowler.

f—i. Europe. From M. Becker's collection.

j—l. Gibraltar. From Mr. Milne's collection.

m. Genoa.

n. ———?

4. ACONTIA LUCTUOSA.

Fusca; abdomen cinerascens; alæ anticæ lineis transversis undulatis, maculis exterioribus guttisque marginalibus nigris, linea submarginali albida, plaga costali ciliisque ex parte albis; porticæ fascia discali alba.

———, *Geoffr. Ins. Par.* ii. 262. *Engr. Pap. d'Eur.* 558, a, b.

Noctua luctuosa, *Wien. Verz.* 90, 7, pl. 114, f. 5. *Esp. Schmett.* iv. pl. 88, f. 4. *Bork. Eur. Schmett.* iv. 77, 29. *Hübner. Eur. Schmett. Noct.* pl. 62, f. 305, 306. *Dup. Hist. Nat. Léop. Fr.* vii. 350, pl. 121, f. 3, 4.

Noctua Italica, *Fabr. Sp. Ins.* ii. 218, 49; *Mant. Ins.* ii. 144, 72; *Ent. Syst.* iii. 2, 37, 85.

Phalæna-Noctua Italica, *Gmel. ed. Syst. Nat.* i. 5, 2551, 1085.

Ædia luctuosa, *Hübner. Verz. Schmett.* 261, 2562.

Acontia luctuosa, *Treit. Schmett.* v. 247, 7. *Steph. Ill. Brit. Ent. Haust.* iii. 113. *Frey. Neue Beitr.* pl. 346; *Ent. Zeit. Stett.* ii. 110. *Boisd. Ind. Méth.* 165, 1323. *Guen. Noct.* ii. 223, 1001.

Phytometra luctuosa, *Haw. Léop. Brit.* 29.

Ophiusa luctuosa, *Meig. Handb.* 183, 95, pl. 13, f. 6; *Syst. Besch.* iii. 210, pl. 114, f. 5.

a—h. England. From Mr. Stephens' collection.

l—m. England.

n. Sicily.

o. ———?

5. ACONTIA CAFFRARIA.

Alba; alæ anticæ fuscae nigro guttatæ, plaga marginali postica plagaque costali guttam includente albis, triente basali alba fasciam glaucescentem albo lineatam includente; posticæ fusco marginatæ.

Phalæna Caffraria, *Cram. Pap. Exot.* ii. 82, pl. 147, f. F.

Noctua caloris, *Hübner. Eur. Schmett. Noct.* f. 373.

Tarache caloris, *Hübner. Verz. Schmett.* 261, 2563.

Acontia caloris, *Treit. Schmett.* v. 241. *Boisd. Ind. Méth.* 165, 1320. *Dup. Suppl.* iii. 531, pl. 45. *Steph. Ill. Brit. Ent.*

Haust. iii. 114. *Herr.-Schæff. Schmett. Eur.* ii. pl. f. 226.

Acontia Caffraria, *Guen. Noct.* ii. 222, 998.

South Europe. Cape.

a. South Africa. Presented by Dr. A. Smith.

b, c. ———? From Mr. Milne's collection.

Several of the exotic species do not quite agree with the generic characters of the European Acontia.

North America.

6. ACONTIA CANDEFACATA.

Mas. Albida; alæ albo ciliatæ; anticæ maculis tribus basalibus duabusque anticis post mediis, fascia una media duabusque subapicalibus, fuscis; posticæ cinereæ, basi subtusque albæ.

Tarache candefacta, (Noctua semigeometra, Heliothis tristis), *Hübner. Samml. Exot. Schmett.* iii. 39, 294, f. 587, 588.

Phytometra minuta, *Haw. Lep. Brit.* 265.

Acontia candefacta, *Guen. Noct.* ii. 216, 984.

Pennsylvania.

a, b. United States. Presented by E. Doubleday, Esq.

c. North America? From Mr. Stephens' collection.

7. ACONTIA ERASTRIOIDES.

Alba; alæ anticæ flavescendo-albæ, strigis tribus costalibus fusco-cinereis, macula postica magna rhomboidali nigro-fusca plumbeo varia, orbiculari e puncto nigro, ciliis albis cinereo vix tinctis.

Acontia erastrioides, *Guen. Noct.* ii. 218, 990.

North America.

8. ACONTIA BIPLAGA.

Alba ; caput, palpi apice et thorax anticus iridescente fusca ; alæ anticæ iridescente fuscae, basi albidæ, maculis duabus costalibus (una guttam includente) albis, lineis duabus transversis incompletis nigris, linea submarginali maculaque ciliari albidis, guttis marginalibus nigris ; posticæ albidæ, litura discali margineque fuscescentibus.

Acontia biplaga, Guen. *Noct.* ii. 218, 991.

a. United States. Presented by E. Doubleday, Esq.

9. ACONTIA APRICA.

Albida ; caput, palpi apice thoraxque anticus fuscescentia ; abdomen fuscescens, segmentis albo marginatis ; alæ fuscae, purpurascente variæ, anticæ basi albæ, cinereo variæ, gutta nigra, plaga costali, linea submarginali ciliisque posticis albis, guttis paucis discalibus nigris ; posticæ fascia latissima indentata ciliisque albis.

Noctua aprica, Hübn. *Eur. Schmett.* *Noct.* f. 371.

Tarache aprica, Hübn. *Verz. Schmett.* 261, 2567.

Acontia aprica, Treit. *Schmett.* v. 238. *Boisd. Ind. Méth.* 165, 1318. *Herr.-Schæff. Schmett. Eur.* ii. pl. 44, f. 223. *Guen. Noct.* ii. 219, 992.

North America. Europe?

10. ACONTIA ARDORIS.

Mas. *Alba*, cervino varia ; alæ anticæ antice albæ flavo lineatæ et fusco oblique fasciatæ, postice fuscae strigis transversis pallidioribus, apices versus fuscae strigis flavis unaque lutea ; posticæ flavæ, basi albæ.

Noctua crucis? *Fabr. Ent. Syst.* iii. 2, 92.

Tarache ardoris, (*Noctua semigeometra*, *Heliothis tristis*), Hübn. *Samml. Exot. Schmett.* iii. 34, 276, f. 551, 552.

Acontia ardoris, *Guen. Noct.* ii. 216, 985.

Georgia.

11. ACONTIA DEBILIS.

Alba; caput antice et palpi fusca; alæ anticæ angustæ, glaucoschistacæ, fascia obliqua arcuata alba extus costali, linea submarginali albida undulata, guttis marginalibus nigricantibus minutis, ciliis albidis, orbiculari obsoleta, reniformi indistincta, margine exteriori valde obliquo; posticæ margine diffuso pallide cinereo.

White. Head in front and palpi brown. Fore wings glaucous slate-colour, narrow, with an oblique white band, which is much curved outwards as it approaches the costa, and extends nearly to the tip of the wing; submarginal line whitish, undulating; marginal dots blackish, minute; ciliæ whitish; orbicular spot obsolete; reniform indistinct; exterior border very oblique. Hind wings with pale diffuse cinereous borders. Length of the body 3 lines; of the wings 8 lines.

a, b. St. John's Bluff, East Florida. Presented by E Doubleday, Esq.

West Indies.

12. ACONTIA TETRAGONA.

Alba; alæ anticæ gutta basali maculisque duabus exterioribus costalibus fuscis, marginem anteriorem versus cyaneo-fuscæ albo nigro ferrugineoque variæ, linea submarginali valde undulata, guttis marginalibus nigris, orbiculari e gutta nigra, reniformi fusca transversa non excavata nigro liturata et pupillata, ciliis ex parte albis.

White. Fore wings with a brown costal dot near the base, a brown costal spot before the middle, and an exterior brown or olive green costal spot; more than one-third of the apical part brown, tinged with blue, and varied with white, black and reddish ferruginous; this brown part is dilated hindward, and sometimes extends almost to the base; most of the white part formed by the submarginal line, which is very undulating; marginal dots black; orbicular spot represented by a black dot; reniform spot transverse, not excavated, brown, with a black centre and border; ciliæ partly white. Length of the body 4 lines; of the wings 10 lines.

a—d. St. Domingo. From Mr. Tweedie's collection.

e. Honduras. From Mr. Dyson's collection.

f. St. Domingo. From Mr. Stevens' collection.

13. ACONTIA? COSTALIS.

Testacea; caput pallide luteum; palpi apice nigri; thoracis discus nigricante-ferrugineus; alæ anticæ nigricante-ferrugineæ, basi costaque pallide luteis; posticæ albæ aut cinereæ, testaceo aut fusco marginatæ.

Pale luteous. Antennæ and tips of the palpi black. Thorax and abdomen testaceous; disk of the former blackish ferruginous. Fore wings blackish ferruginous, pale luteous at the base and along the costa. Hind wings white, shining, with slightly testaceous borders. *Var.*—Hind wings cinereous, with brown borders. Length of the body 4—4½ lines; of the wings 10—11 lines.

a. St. Domingo. From Mr. Tweedie's collection.

b. Santarem. From Mr. Bates' collection.

South America.

14. ACONTIA DECISA.

Alba; caput fascia cinerea; thorax macula discali cinerea; abdomen cinereo fasciatum; alæ anticæ maculis basalibus unaque costali cinereis, fascia lata marginali glauco-fusca nigro alboque varia postice dilatata, striga costali obliqua cervina, ciliis ex parte albis; posticæ nitentes, margine subcervino.

White. Head with a gray band. Thorax with a gray discal spot. Abdomen with gray bands. Fore wings with some gray spots towards the base, and with one on the costa a little beyond the middle; a broad glaucous-brown marginal band, which is dilated hindward to half the length of the wing towards the base, and thus includes a right angle; it is varied with black and white marks, and is accompanied on the costa by an oblique fawn-coloured streak; ciliæ partly white. Hind wings shining; borders slightly fawn-coloured. Length of the body 4 lines; of the wings 10 lines.

Brazil. In Mr. Saunders' collection.

Africa.

15. ACONTIA NATALIS.

Alba; alæ anticæ basi cinereo nebulosæ, apices versus rufescente-cinereæ maculis magnis pallidioribus, orbiculari et reniformi cinereis albido marginatis rotundatis subæqualibus optime determinatis macula cinerea divisis, striga apud reniformem ferruginea, ciliis apud angulum internum cinereo nebulosis; posticæ cinereæ, ciliis albis.

Acontia Natalis, *Guen. Noct. ii. 217, 987.*

Port Natal.

16. ACONTIA SECTA.

Mas. Alba; caput et abdomen nigricantia; alæ anticæ lineis basalibus undulatis cinereis, costæ dimidio basali cinereo striga costali exteriori obliqua viridescente-cinerea, fasciæ marginali violaceo-cinerea nitente utrinque olivaceo tincta lineis duabus submarginalibus guttularibus albis, lunuli marginalibus nigris, reniformi nigro marginata; postica nigricante marginatæ.

Acontia secta, *Guen. Noct. ii. 221, 997.*

Abyssinia.

17. ACONTIA GRADATA.

Alba; caput fuscum; palpi porrecti, apice fuscis, articulo 3o minimo; abdomen flavo-album; alæ anticæ fascia basalifuscescente, maculis costalibus fuscis, fascia lata marginali purpurascente-fusca, postice dilatata intus angulata, lunulis marginalibus nigris, striga discali lutea, reniformi e punctis nigris; posticæ flavæ, fusco marginatæ.

White. Head brown. Palpi porrect, with brown tips; third joint very small. Abdomen yellowish white. Fore wings with a brownish band near the base, and with brown spots along the costa; a broad brown lilac-tinged marginal band, which is much dilated hindward, and forms two right angles along the interior side; marginal lunules black; a pale luteous discal streak, interrupted by the black flecks which indicate the reniform spot. Hind wings yellow, with brown borders. Length of the body 6 lines; of the wings 14 lines.

a. Cape. From M. Dregé's collection.

18. ACONTIA INSOCIA.

Alba; abdomen subcinereum, alas posticas paullo superans; alæ anticæ sat angustæ, maculis costalibus fasciisque duabus duplicatis undulatis cinereo-fuscis, orbiculari et reniformi e annulis duobus ineompletis nigris, guttis marginalibus nigris; posticæ cinereo marginatæ.

White. Abdomen somewhat cinereous, extending a little

beyond the hind wings. Fore wings rather narrow, with cinereous-brown costal spots, and with two irregular double undulating cinereous brown bands, the first near the base, the second marginal, dilated hindward; orbicular and reniform spots slightly indicated by their incomplete black borders; marginal dots black. Hind wings with cinereous borders. Length of the body 3 lines; of the wings 7 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

19. ACONTIA CONCINNULA.

Alba; caput fascia nigricante; abdomen pallide testaceum; alæ anticæ fasciis basalibus undulatis maculisque costalibus exterioribus costalibus cinereis, orbiculari et reniformi subæqualibus e margine incompleto cinereo aut nigro, triente marginali fusca albo nigroque varia intus excavata postice dilatata, guttis marginalibus nigris, ciliis fuscis; posticæ cinereo marginatæ.

White. Head with a blackish band. Abdomen pale testaceous. Fore wings with undulating gray bands towards the base, and with exterior gray costal spots; orbicular and reniform spots indicated by incomplete gray or black borders, the former hardly smaller than the latter; marginal third part of the wing brown, varied with white and black, widened hindward and much excavated in the middle of the interior side; marginal dots black; ciliæ partly brown. Hind wings with cinereous borders. Length of the body $3\frac{1}{2}$ lines; of the wings 8 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

20. ACONTIA PYRALINA.

Alba; alæ anticæ fuscæ, albo subconspersæ, basi costaque albis, maculis basalibus, una costali fasciaque lata fuscis, maculis discalibus nigro marginatis, litura exteriore discali guttisque marginalibus nigris, ciliis ex parte albis; posticæ pallide cinereæ, ciliis albidis.

White. Fore wings brown, slightly speckled with white, white at the base and along most of the costa, with the exception of some brown spots near the base, one on the costa beyond the middle, and a broad brown band; discal spots bordered with black; an exterior black discal mark and black marginal dots; ciliæ partly white.

Hind wings pale cinereous, with whitish ciliæ. Length of the body 3 lines; of the wings 8 lines.

a, b. Sierra Leone. Presented by the Rev. D. F. Morgan.

21. ACONTIA DISPAR.

Mas. *Alba*; *caput fuscum*; *palpi oblique ascendentes, articulo 3o nigro brevissimo*; *abdomen luteum*; *alæ anticæ glauco-fuscæ, nigro fusco variæ, fasciis indistinctis incompletis undulatis albidis, plaga exteriori costali alba maculam fuscam lituramque nigram includente, lunulis marginalibus nigris*; *posticæ luteæ, macula fascia margineque fuscis.*

Male. White. Head brown. Palpi obliquely ascending; third joint black, not more than one-fourth of the length of the second. Abdomen luteous. Fore wings brown, with a glaucous tinge, and varied with dark brown; some indistinct and incomplete whitish undulating bands, and a large white costal patch, which is beyond the middle, and contains a brown costal spot and a black mark, the latter indicating the reniform spot; marginal lunules black. Hind wings luteous; discal spot, discal band and border brown. Length of the body 5 lines; of the wings 12 lines.

a. Port Natal. From Dr. Krauss' collection.

Asia.

22. ACONTIA OLIVEA.

Alba; *abdomen cinerascens*; *alæ anticæ striga discali lutea, marginibus late luteo-fuscescentibus*; *posticæ fuscescente-cinereæ, ciliis albidis.*

Acontia Olivea, *Guen. Noct. ii.* 217, 986.

Hindustan.

23. ACONTIA TROPICA.

Var. *Alba*; *thorax antice flavus*; *abdomen pallide testaceum*; *alæ anticæ nonnunquam testaceæ, plus minusve flavo variæ, maculis costalibus cinereis, fascia lata undulata submarginali purpureo-fusca, orbiculari et reniformi subcinereis, nigricante marginatis, guttis paucis marginalibus nigris, macula ciliari nigricante*; *posticæ pallide testaceæ, margine fuscescente.*

Acontia tropica, *Guen. Noct. ii.* 217, 988.

Var. White. Thorax mostly yellow in front. Abdomen pale testaceous. Fore wings more or less varied with yellow, now and then testaceous, and varied with bright yellow, with gray spots along the costa, and with a broad undulating submarginàl brown band, which is varied with pale purple; orbicular and reniform spots slightly grayish, with blackish borders; an interrupted and irregular row of black marginal dots; ciliæ blackish opposite the two largest of these dots. Hind wings pale testaceous, with brownish borders. Length of the body 3—4 lines; of the wings 8—10 lines.

a—c. China. Presented by G. T. Lay, Esq.

d, e. North India. From Mr. James' collection.

f. Ceylon. Presented by R. Templeton, Esq.

24. ACONTIA CROCATA.

Lutea; alæ anticæ albo-flavescentes, luteo tinctæ, postice fuscæ et violaceo cinereo variæ, macula apud angulum internum fusca nigro lineata, margine exteriori ciliisque luteis; posticæ luteæ, nigro marginatæ.

Acontia crocata, Guen. Noct. ii. 218, 989.

Central Hindostan.

25. ACONTIA OPALINOIDES.

Nivea; alæ anticæ lineis duobus (dimidiata et extrabasilari) undulatis duplicatis maculisque duabus costalibus cinereis, maculis duabus magnis vagis fuscis nigro glaucoque variis fasciâ indistincta cinerea connexis, una apicali altera apud angulum internum, reniformi rotundata nigro interrupte marginata; posticæ margine obscuro.

Acontia opalinoides, Guen. Noct. ii. 219, 993.

Calophasia notabilis, var. ? p. 669.

Coromandel.

26. ACONTIA TITANIA.

Alba; alæ anticæ basi cinerascens, dimidio apicali fusco punctis cyaneis, excisura antica alba, linea submarginali albida, guttis marginalibus nigris, ciliis ex parte fuscis, orbiculari e puncto nigro, reniformi et macula costali olivaceis; posticæ fasciis duabus latis fuscis.

Noctua Titania, Esp. Schmett. iv. 36, pl. 190, f. 2.

Acontia Titania, *Treit. Schmett.* v. 243, 5. *Eversm. Faun. Volg-Ural.* 330. *Dup. Suppl.* iii. 438, pl. 38. *Boisd. Ind. Méth.* 165, 1321. *Herr.-Schæff. Schmett. Eur.* ii. pl. 45, f. 230, 231. *Guen. Noct.* ii. 222, 999.

Heliothisa Titania, *Meig. Syst. Besch.* iii. 227, 7, pl. 114, f. 8.

South Asiatic Russia.

a, b. Ural Region? From M. Becker's collection.

27. ACONTIA URANIA.

Alba; *caput roseum, vertice fusco*; *palpi rosei*; *antennæ nigræ, subtus fulvæ*; *abdomen apice cinerascens*; *alæ anticæ fasciis basalibus strigisque costalibus pallide fuscis, annulis duobus discalibus nigris, triente exteriorē roseo-fusca cyaneo nigroque varia postice dilatata*; *posticæ cinerascētes, margine fusco.*

Acontia Urania, *Herr.-Schæff. Schmett. Eur.* ii. pl. 45, f. 227. *Guen. Noct.* ii. 223, 1000.

28. ACONTIA CRETACEA.

Candida; *ciliæ concolores*; *alæ anticæ basi fasciæque lata externa nigris albo marmoratis*; *posticæ fascia nigricante.*

Acontia cretacea, *Evers. Bull. Soc. Imp. Nat. Mosc.* xx. 3, 80, 17, pl. 6, f. 3.

Sarepta.

29. ACONTIA COSTISTIGMA.

Alba; *alæ anticæ gutta basali maculisque duabus exterioribus costalibus fusco-olivaceis, marginem exteriorē versus glaucofusca nigro et ferrugineo variæ, orbiculari obsoleta, reniformi nigro marginata, lunulis marginalibus nigris, linea submarginali alba, ciliis albo strigatis*; *posticæ albidæ, margine subæneo.*

White. Fore wings with a brownish olive dot, costal dot near the base, and with two costal spots of the same hue, exterior part brown, tinged with glaucous, and varied with black and ferruginous, and including the white submarginal line; this part includes an angle near the costa, and is much widened hindward; orbicular spot obsolete; reniform with a black border; marginal lunules black; ciliæ with two or three white streaks. Hind wings whitish,

with slightly æneous borders. Length of the body 4 lines ; of the wings 9 lines.

- a. North India. Presented by E. Doubleday, Esq.
b. Hindostan.

30. ACONTIA BASIFERA.

Alba ; caput antice et palpi fusca ; thoracis discus fuscescens ; abdomen pallide cinereum ; alæ anticæ olivaceæ, basi costaque albis, maculis tribus costalibus olivaceis, orbiculari et reniformi fuscis, hac subrotunda, illa oblonga, linea submarginali alba incompleta, guttis marginalibus nigris ; posticæ cinereæ.

White. Head in front and palpi brown. Disk of the thorax brownish. Abdomen pale cinereous. Fore wings dull olive-colour, white at the base and along the costa, where there are three olive-coloured spots ; orbicular and reniform spots brown, the former oblong, the latter almost round ; submarginal line white, irregular, incomplete ; marginal dots black. Hind wings cinereous. Length of the body $2\frac{3}{4}$ lines ; of the wings 6 lines.

- a, b. North India. From Mr. Stevens' collection.

31. ACONTIA SIGNIFERA.

Alba ; alæ anticæ fusce, basi albæ maculis duabus costalibus fuscis, lineis strigisque exterioribus nigris, fascia interrupta duplicata undulata alba, reniformi arcuata, striga exteriori guttisque marginalibus nigris, ciliis cinereis ; posticæ margine lato cinereo.

White. Fore wings brown, excepting full one-third of the length from the base, near which there are two brown costal spots ; the brown part contains some black lines, and some exterior black streaks, and an intermediate double interrupted undulating white band ; reniform spot in the white band, indicated by a black lunule, near which there is a black streak ; marginal dots black ; ciliæ mostly cinereous. Hind wings with broad cinereous borders. Length of the body 3 lines ; of the wings 7 lines.

- a. North India. From Mr. James' collection.

32. ACONTIA TURPIS.

Pallide cervina; abdomen pallide testaceum, basi album; alæ anticæ sat angustæ, lineis transversis indistinctis undulatis obscurioribus, orbiculari et reniformi albidis margine obscuro, illa magna, linea submarginali albida undulata, guttis marginalibus minimis obscure fuscis, ciliis cinereis; posticæ pallide cinereæ, guttis marginalibus fuscis, ciliis albidis.

Pale fawn-colour. Abdomen pale testaceous, white at the base. Fore wings rather narrow, with indistinct undulating transverse darker lines; orbicular and reniform spots whitish, with darker borders, the former large; submarginal line whitish, undulating; marginal dots dark brown, very minute; ciliæ cinereous. Hind wings pale cinereous, with brown marginal dots, and with whitish ciliæ. Length of the body 3 lines; of the wings 8 lines.

a. North India. From Mr. Stevens' collection.

33. ACONTIA TRIRADIATA.

Schistacea; thorax albo varius; abdominis segmenta albo marginata; alæ anticæ fusce, cyaneo conspersæ, intus albæ schistaceo variæ, gutta basali nigra, plaga costali exteriore lineisque duabus incompletis undulatis albis, ciliis postice albis, orbiculari obsoleta, reniformi et guttis marginalibus nigris; posticæ fascia ciliisque albis, strigis tribus fuscis.

Slate-colour. Thorax varied with white. Abdomen with a slender white band on the hind border of each segment. Fore wings brown, speckled with blue, white and varied with slate-colour for almost one-third of the length from the base, near which there is a black dot; a white costal patch beyond the middle, and two incomplete undulating white lines; hind part of the ciliæ white; orbicular spot obsolete; reniform mostly black; marginal dots black, the two by the tip of the wing larger than the others. Hind wings with a white band, which is interrupted by two brown streaks, and partly so by a third short streak in front; ciliæ white. Length of the body 5 lines; of the wings 12 lines.

a. Punjaub. Presented by General Hearsay.

34. ACONTIA BIPLAGA.

Alba, nitens; alæ anticæ opalinæ, striga antica obliqua maculaque maxima subrotunda subapicali cupreo-fuscis; posticæ marginæ subcupreo.

White, shining. Fore wings with opaline lustre, with an oblique cupreous-brown streak, extending from the middle of the costa to the disk, and with a very large almost round subapical cupreous-brown spot; a slender interrupted black marginal line. Hind wings with a slightly cupreous border. Length of the body 5 lines; of the wings 12 lines.

a. North China. From Mr. Fortune's collection.

35. ACONTIA MACULOSA.

Alba; thoracis discus fuscus; abdomen pallide cinereum fasciis fuscis; alæ anticæ maculis nonnullis olivaceis, fascia lata submarginali obliqua undulata fusca glauco varia postice dilatata, maculis discalibus nigricantibus disco albidis, maculis et guttis marginalibus nigris; posticæ pallide cinereæ, litura discali margineque fuscis, ciliis albidis.

White. Thorax with a brown disk. Abdomen pale cinereous, with brownish bands. Fore wings with several dull olive-coloured spots, and with a broad submarginal oblique undulating glaucous-varied brown band, which is dilated hindward; discal spots blackish, with whitish disks; a row of black marginal spots or dots. Hind wings pale cinereous; discal mark and border brown; ciliæ whitish. Length of the body 3—3½ lines; of the wings 8—9 lines.

a. China. Presented by H. G. Harrington, Esq.

b, c. North India. From Mr. Stevens' collection.

36. ACONTIA OLIVACEA.

Sordide alba; alæ anticæ pallide olivaceo-cinereæ, lineis quatuor albidis, 1a et 2a interioribus, 3a et 4a exterioribus approximatis, striga discali indistincta rufescente, reniformi e litura nigra strigaque arcuata obscura olivaceo-cinerea costam versus dilatata connexis, guttis duabus subapicalibus nigris; posticæ cinereæ, basi albidæ, guttis marginalibus nigris.

Dingy white. Fore wings pale olive-gray, with four whitish lines; first and second lines interior; third and fourth exterior,

approximate; an indistinct reddish streak in front of the reniform spot, which is represented by a black mark, whence proceeds a curved dark olive-gray streak, which becomes wider and paler as it approaches the border; two black subapical dots. Hind wings cinereous, whitish towards the base; a row of black marginal dots; Length of the body $4\frac{1}{2}$ —5 lines; of the wings 11—12 lines.

a. Punjaub. Presented by General Hearsay.

b. Ceylon. Presented by R. Templeton, Esq.

37. ACONTIA SIGNIFERA.

Fusca, subtus lutea; caput antice album; palpi albi, apice fusci; thorax albo varius; abdomen basi fasciisque luteis; alæ antica nigro conspersæ, purpureo subinctæ, maculis costalibus ciliisque minoribus albis; posticæ luteæ, fusco late marginatæ.

Brown, luteous beneath. Head white in front. Palpi white, with brown tips. Thorax varied with white. Abdomen luteous at the base and with luteous bands. Fore wings speckled with black, slightly tinged with purple, with various white marks, of which the largest are along the costa; middle costal spot larger than the others. Hind wings luteous, with broad brown borders. Length of the body 3 lines; of the wings 6 lines.

a. North India. From Mr. Stevens' collection.

38. ACONTIA BIMACULA.

Mas. Alba; caput fusco fasciatum; palpi ascendentes, extus fuscescentes, articulo 3o cylindrico longiusculo; alæ antica guttis costalibus nigris, striga brevi costali subapicali fusca albidopurpurascente conspersa, guttis submarginalibus fuscis, fascia exteriori testacea, linea marginali interrupta fusca; posticæ guttis marginalibus nigris.

Male. White. Head with a brown band in front. Palpi ascending, brownish on the outer side; third joint cylindrical, nearly half the length of the second. Fore wings with black costal dots, and with a short brown costal subapical streak, which is sprinkled with whitish lilac; an indistinct testaceous band between a row of submarginal brown dots, and an interrupted brown marginal line. Hind wings with black marginal dots. Length of the body 6 lines; of the wings 14 lines.

a. Hong Kong. Presented by J. C. Bowring, Esq.

Australia.

39. ACONTIA PULCHRA.

Fœm. *Alba* ; *caput antice rufescens* ; *palpi subascendentes, supra apiceque rufescentes, articulo 3o cylindrico vix brevi* ; *alæ anticæ lituris quatuor costalibus rufescentibus, 4a strigaeque brevi lata obliqua undulata fusca cyaneo conspersa connexis, linea posteriore testacea, lunulis submarginalibus fuscis indistinctis.*

Acontia pulchra, MSS.

Female. White. Head reddish in front. Palpi slightly ascending, reddish above and towards the tips ; third joint cylindrical, about one-third of the length of the second. Fore wings with four reddish marks along the costa, the first and the second very small, the third larger, the fourth still larger, and connected with a short broad oblique undulating brown streak, which is sprinkled with blue, and joins a hinder testaceous line ; submarginal lunules brown, indistinct. Length of the body 8 lines ; of the wings 19 lines.

a. Australia, North-West Coast. Presented by His Excellency Capt. Gray.

40. ACONTIA ? UNDULOSA.

Alba ; *palpi et pedes antici nigri* ; *thorax nigro fasciatus* ; *abdomen et pedes lutea* ; *alæ anticæ lineis tribus angulosis, striga costali fasciaque exteriore nigro-cinereis, reniformi guttulari guttisq[ue] marginalibus nigris* ; *posticæ luteæ, apice fuscæ.*

White. Palpi and fore legs black. Thorax with a black band. Abdomen and posterior legs luteous. Fore wings with three zigzag blackish gray lines, with a blackish gray costal streak between the first and second lines, and a blackish gray band between the third line and the marginal dots ; reniform spot represented by a black dot. Hind wings luteous, with brown tips. Length of the body 4 lines ; of the wings 12 lines.

a. Tasmania. Presented by R. Butler, Esq.

Country unknown.

41. ACONTIA BIPUNCTATA.

Sordide alba, vix testaceo tincta; alæ anticæ lituris costalibus pallidissime fuscis, fascia lata obliqua undulata glauco-fusca nigro-fusco varia postice dilatata, orbiculari e gutta nigra, reniformi indistincta, linea marginali interrupta nigra; posticæ margine lato cinereo.

Dingy white, with a very slight testaceous tinge. Fore wings with some very pale brown marks along the costa, and with a broad oblique undulating brown band, which does not extend to the costa, has a glaucous tinge, is varied with blackish brown, and is widened hindward; orbicular spot represented by a black dot; reniform indistinct; a black interrupted marginal line. Hind wings with broad cinereous borders. Length of the body 3 lines; of the wings 8 lines.

a, b. ———?

42. ACONTIA MONILIFERA.

Alba; alæ anticæ macula guttaque costalibus fuscis, umbra apud angulum interiorem cinerea, orbiculari e gutta nigra, reniformi nigricante, fascia obliqua exteriori purpureo-fusca postice dilatata strigaeque flavescente apud reniformem conjunctis, linea submarginali fuscescente, guttis marginalibus nigris, ciliis ex parte fuscescentibus; posticæ margine lato pallide fusco.

White. Fore wings with a brown spot on the costa beyond the middle, and with a brown dot nearer the tip; a slight gray mark near the base of the interior border; orbicular spot indicated by a black dot; reniform blackish; an exterior oblique brown band, much widened hindward, with purplish reflections, half including the reniform, and there contiguous to a yellowish mark; submarginal line brownish, connected at the tip of the wing with the above band; a row of black marginal dots; ciliæ partly brownish. Hind wings with broad pale brown borders. Length of the body $3\frac{1}{2}$ lines; of the wings 10 lines.

a. ———?

43. ACONTIA INCLUDENS.

Alba; palpi et caput antice fusca; alæ anticæ purpureo-fuscae, triente basali alba fasciis undulatis cinereis, gutta basali nigra, plaga magna exteriore costali alba, litura posteriore ciliisque albidis, his cinereo maculatis; posticæ margine diffuso fuscescente.

White. Palpi and fore part of the head brown. Fore wings purplish brown, white, with undulating gray bands for more than one-third of the length from the base, near which there is a black dot; a large white exterior costal patch, and a whitish mark behind it; ciliæ whitish, with gray spots. Hind wings with diffuse brownish borders. Length of the body 6 lines; of the wings 16 lines.

a. ——— ?

44. ACONTIA DELECTA.

Fœm. Alba, subtus testacea; caput thoracisque discus fusca; palpi porrecti, breviusculi; abdomen luteum; alæ anticæ fasciis duabus nigricantibus cyaneo variis ferrugineo marginatis, 1a costali ad discum flexa, 2a submarginali postice dilatata, macula parva costali ferruginea; posticæ luteæ, fusco marginatæ.

Female. White, testaceous beneath. Head and the fore part and disk of the thorax brown. Palpi porrect, rather short. Abdomen luteous. Fore wings with two blackish ferruginous-bordered, blue-varied bands, the first extending along the costa to a short distance from the base, and then diverging to the disk, the second submarginal emitting a marginal fork at the tip, and much dilated hindward; a small ferruginous costal spot near the exterior band. Hind wings luteous, with brown borders. Length of the body 5 lines; of the wings 12 lines.

a. ——— ?

Genus 6. NIPISTA.

Fœm. Corpus sat validum. Proboscis longiuscula. Palpi caput sat superantes; articulus 2us longus, validus; 3us obtusus, brevissimus. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas non superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ latiusculæ; anticæ apud costam rectæ, apice angulatæ, margine exteriore subconvexo vix obliquæ.

Female. Body rather stout. Proboscis rather long. Palpi extending some distance beyond the head; second joint long and stout; third obtuse, not more than one-sixth of the length of the second. Antennæ simple, more than half the length of the body. Abdomen not extending beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings moderately broad. Fore wings straight in front, angular at the tips, very slightly convex and oblique along the exterior border.

1. NIPISTA LINEATA.

Fœm. *Albida; palpi et thorax anticus ex parte fuscis; alæ antice extus glaucescentes, margine exteriore olivaceo, lineis plurimis undulatis fuscis, fasciis tribus interioribus macularibus obscure fuscis, linea submarginali undulata fusca albidaque, guttis submarginalibus fuscis albo marginatis, maculis discalibus subobsoletis; posticæ subtestaceæ, basi albidis, ciliis albis.*

Female. Whitish. Palpi and fore part of the thorax partly brown. Fore wings with a glaucous tinge beyond the middle, and somewhat olive-coloured along the exterior border; numerous undulating brown lines; three much deeper brown macular bands on the interior half of the wing; submarginal line undulating, brown and whitish; a row of brown white-bordered dots nearer the exterior border; discal spots almost obsolete. Hind wings somewhat testaceous, whitish towards the base; ciliæ white. Length of the body 4—5 lines; of the wings 10—12 lines.

a, b. Venezuela. From Mr. Dyson's collection.

Genus 7. CAULARIS.

Mas. Corpus robustum. Proboscis longiuscula. Palpi porrecti, caput paullo superantes; articulus 2us validus; 3us cylindricus, gracilis, brevis. Antennæ pectinatæ. Abdomen alas posticas vix superans. Pedes sat validi; tibiæ posticæ calcaribus longis. Alæ anticæ longiusculæ, vix latæ, apud costam subrectæ, apice rotundatæ, margine exteriore perobliquo.

Male. Body stout. Proboscis rather long. Palpi porrect, extending a little beyond the head; second joint stout; third cylindrical, slender, not more than one-fourth of the length of the second. Antennæ moderately pectinated. Abdomen hardly ex-

tending beyond the hind wings. Legs moderately stout; hind tibiæ with long spurs. Fore wings rather long, moderately broad, almost straight in front, rounded at the tips, very oblique along the exterior border.

This genus appears to have some affinity to *Heliothis* as well as to *Acontia*.

1. CAULARIS UNDULANS.

Mas. *Albida; caput antice palpique fusca; abdomen pallide luteum; alæ anticæ fusco conspersæ, fascia lata marginali fusca lineaque undulata nigra connexis, vitta maculaque oblonga discalibus albis, maculis discalibus testaceo-fuscis apud discum nigris; posticæ pallide luteæ, fusco marginatæ, litura apud angulum interiorem nigra arcuata.*

Male. Whitish. Head in front and palpi brown. Abdomen pale luteous. Fore wings thickly speckled with brown; a broad marginal brown band divided from the whitish part by an undulating black line, along which the wing is not speckled, and it is also wholly white in a discal stripe, and in an oblong spot between the discal spots, which are testaceous-brown, with black disks. Hind wings pale luteous, with brown borders, and with a black curved mark by the interior angle. Length of the body 6 lines; of the wings 16 lines.

a. St. Domingo. From Mr. Stevens' collection.

Genus 8. DACIRA.

Mas. *Corpus robustum. Proboscis mediocriter longa. Palpi breves, porrecti, caput non superantes; articulus 3us minimus. Antennæ validæ, simplices, corporis dimidio paullo longiores. Abdomen alas posticas paullo superans, apice dense fasciculatum. Pedes breves, robusti, pilosi; tibiæ posticæ dense fasciculatæ, calcaribus validis breviusculis. Alæ latiusculæ, non longæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori antice vix obliquo postice mediocriter obliquo.*

Male. Body stout. Proboscis moderately long. Palpi short, porrect, not extending beyond the head; third joint very minute. Antennæ stout, simple, a little more than half the length of the body. Abdomen extending a little beyond the hind wings, with a thick apical tuft. Legs short, thick, pilose; hind tibiæ thickly

tufted, with stout, but rather short spurs. Wings rather broad, not long. Fore wings straight in front, rectangular at the tips; exterior border hardly oblique in front, moderately oblique hindward.

1. DACIRA COMBUSTA.

Mas. *Aterrima*; caput, antennæ basi, tibiæ apice tarsique basi alba; thorax posticus albo ferrugineoque pilosus; abdomen pallide cinereum, disco nigricante; alæ anticæ rufescenteferrugineæ, triente basali alba, linea intermedia nigra, fascia interrupta testacea interiore basi atra, plaga costali nigra, lituris exterioribus costalibus et ciliaribus albis; posticæ albæ.

Male. Very deep black. Head, antennæ at the base, tips of the tibiæ and tarsi towards the base white. Hind part of the thorax with white and ferruginous plumes. Abdomen pale cinereous; disk blackish. Fore wings reddish ferruginous, white for more than one-third of the length from the base, deep black at the base, near which there is a testaceous interrupted band, of which the fore part is bordered with black; the white part is bordered by a black line which adjoins a large black costal patch; some white marks along the exterior part of the costa and on the ciliæ, which elsewhere are black. Hind wings white, silky. Length of the body $4\frac{1}{2}$ lines; of the wings 9 lines.

a. Villa Nova. From Mr. Bates' collection.

Fam. 3. ERASTRIDÆ.

Erastridæ, *Guen. Noct. ii. 224.*

Noctuo-Phalænidæ, *Boisd.; Dup.*

- | | | |
|--|---------|---------------------------|
| A. Abdomen alas posticas superans. | - | 1. CHAMYRIS, <i>Guen.</i> |
| B. Abdomen alas posticas non superans. | | |
| A. Abdomen cristatum. | - - - | 3. ERASTRIA, <i>Ochs.</i> |
| B. Abdomen non cristatum. | | |
| A. Thorax cristatus. | - - - - | 2. PSEUDINA, <i>Guen.</i> |
| B. Thorax non cristatus. | - - - | 4. BANKIA, <i>Guen.</i> |

Genus 1. CHAMYRIS.

Corpus sat validum. Proboscis longa, valida. Palpi graciles, subarcuati, oblique ascendentes; articulus 3us acuminatus, 2i triente non brevior. Antennæ subpubescentes, corporis dimidio longiores. Abdomen alas posticas superans, segmentis 1—4 fasciculatis. Pedes longiusculi, sat validi; tibiæ posticæ calcaribus breviusculis. Alæ anticæ longæ, non latæ, apud costam vix convexæ, apice rotundatæ, margine exteriore convexo perobliquo.

Chamyris, *Guen. Noct.* ii. 225.

Acontia, p., *Treit.*; *Boisd.*

Body moderately stout. Proboscis long, stout. Palpi slender, slightly curved, obliquely ascending; third joint acuminate, about one-third of the length of the second. Antennæ more than half the length of the body, very minutely pubescent. Abdomen extending somewhat beyond the hind wings; four first segments crested. Legs moderately long and stout; hind tibiæ with rather short spurs. Fore wings long, not broad, hardly convex in front, rounded at the tips, convex and very oblique along the exterior border.

1. CHAMYRIS CERINTHA.

Cinereo-fusca; abdomen albidum, cristis ferrugineis; alæ anticæ albæ, fasciis duabus ferrugineo-fuscis cyaneo nigro alboque variis, una basali, altera marginali, fascia intermedia pallida undulata glauco-cinerea albo lineata; posticæ albæ, linea marginali cinerea.

Acontia Cerintha, *Treit. Schmett.* v. 240. *Boisd. Ind. Méth.* 165, 1319. *Herr.-Schæff. Schmett. Eur.* ii. pl. 86, f. 446.

Chamyris Cerintha, *Guen. Noct.* ii. 225, 1002.

a—e. New York. Presented by E. Doubleday, Esq.

Genus 2. PSEUDINA.

Corpus vix robustum. Palpi graciles, squamosi, caput perpaullo superantes. Antennæ sat validæ, vix pubescentes. Thorax globosus, posticæ cristatus; tegulæ apice lanuginosæ. Abdomen læve, alas posticas non superans. Alæ longæ, latiusculæ; anticæ apud costam vix convexæ, apice rotundatæ, margine exteriore convexo sat obliquo.

Pseudina, *Guen. Noct.* ii. 226.

Body hardly stout. Palpi slender, curved, squamose, hirsute, extending very little beyond the head. Antennæ rather short, hardly pubescent. Thorax globose, with a crest at its junction with the abdomen; lappets cottony at their tips. Abdomen smooth, not extending beyond the hind wings. Wings long, rather broad. Fore wings hardly convex in front, rounded at the tips, convex and rather oblique along the exterior border.

1. PSEUDINA VELLEREA.

Alba; caput cinereum; alæ anticæ plaga costali media maxima lineisque exterioribus obliquis undulatis duplicatis cinereis, orbiculari et reniformi magnis subæqualibus nigro marginatis; posticæ fascia margineque cinereis.

Pseudina vellerea, *Guen. Noct.* ii. 226, 1003.

Brazil.

Genus 3. ERASTRIA.

Corpus gracile. Proboscis brevis. Palpi graciles, oblique ascendentes; articulus 3us lanceolatus, 2i triente vix brevior. Antennæ simplices, graciles, corporis dimidio fere longiores. Abdomen cristatum, alas posticas non superans. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ latiusculæ; anticæ apud costam rectæ, apice subrotundatæ aut subacutæ, margine exteriori perparum convexo.

Erastria, *Ochs.*; *Treit.*; *Steph.*; *Curt.*; *Boisd.*; *Dup.*; *Guen. Ann. Soc. Ent. Fr.* x. 226; *Noct.* ii. 226.

Body slender. Proboscis short. Palpi slender, obliquely ascending; third joint lanceolate, nearly one-third of the length of the second. Antennæ simple, slender, full half the length of the body. Abdomen crested, not extending beyond the hind wings. Legs slender; hind tibiæ with long spurs. Wings rather broad. Fore wings straight in front, slightly rounded or somewhat acute at the tips, very slightly oblique along the exterior border.

Europe.

1. ERASTRIA VENUSTULA.

Cinereo-fusca; alæ anticæ albo variæ, guttis maculisque paucis discalibus nigris; posticæ albidæ.

Pyrallis Hybnerana? *Fabr. Ent. Syst.* iii. 2247, 17.
Noctua venustula, *Hübner. Eur. Schmett. Noct.* f. 294.
Haplotis venustula, *Hübner. Verz. Schmett.* 254, 2517.
Erastria venustula, *Treit. Schmett.* v. 264; *Suppl.* 147. *Steph. Ill. Brit. Ent.* iii. 118. *Curt. Brit. Ent.* f. 356. *Boisd. Ind. Méth.* 176, 1408. *Eversm. Faun. Volg-Ural.* 334. *Dup. Suppl.* iii. 505, pl. 47, f. 5. *Guen. Noct.* ii. 227, 1004.

a, b. England. From Mr. Stephens' collection.

c, d. England.

e. Europe. From M. Becker's collection.

2. ERASTRIA SCITULA.

Alæ anticæ albo cinereoque variæ, macula reniformi lineaque marginali undulata nigro notatis.

Erastria scitula, *Ramb. Ann. Soc. Ent. Fr.* ii. 26, pl. 2, f. 16.
Dup. Suppl. iii. 567, pl. 47, f. 4. *Herr.-Schæff. Schmett. Eur.* ii. pl. 50, f. 251. *Guen. Noct.* ii. 228, 1005.

Hæmerosia scitula, *Boisd. Ind. Méth.* 164, 1315.

Provence. Corsica.

3. ERASTRIA ATRATULA.

Nigro-fusca, albo conspersa; abdomen cinereum; alæ anticæ fasciis duabus latis excavatis albis, guttis submarginalibus nigris; posticæ fuscесcente-cinereæ, ciliis albidis.

Noctua atratula, *Wien. Verz.* 89, 7. *Bork. Eur. Schmett.* iv. 194, 88.

Geometra rivulata, *Fabr. Sp. Ins.* ii. 262, 120; *Mant. Ins.* ii. 206, 181; *Ent. Syst.* iii. 2, 189, 219. *Bork. Eur. Schmett.* v. 540, 285.

Phalæna-Geometra rivulata, *Gmel. ed. Syst. Nat.* i. 5, 2479, 738.

Noctua Tineodes, *Naturf.* ix. 138. *Berl. Mag.* iii. 412. *Scriba, Beitr.* iii. pl. 13, f. 6. *View.* pl. 1, f. 7.

Noctua deceptor, *Scop. Ent. Carn.* 527.

Haplotis atratula, *Hübner. Verz. Schmett.* 254, 2515.

Erastria atratula, *Treit. Schmett.* v. 261. *Boisd. Ind. Méth.* 176, 1405. *Dup. Suppl.* iii. 563, pl. 47. *Guen. Noct.* ii. 228, 1006.

Anthophila atratula, *Meig. Handb.* 185, 101, pl. 13, f. 9; *Syst. Besch.* iii. 239, 2, pl. 120, f. 4.

a—d. Europe. From M. Becker's collection.

4. ERASTRIA CANDIDULA.

Alba; palpi fuscii; abdomen albidum; alæ anticæ cinereo nebulosæ, macula interiore plagaque exteriori costalibus nigro-cinereis, hac albo notata, guttis paucis lunulisque marginalibus elongatis nigris; posticæ albidæ.

Noctua candidula, *Wien. Verz.* 90, 8. *Bork. Eur. Schmett.* iv. 89.
Hübner. Eur. Schmett. Noct. f. 295.

Hapalotis candidula, *Hübner. Verz. Schmett.* 254, 2516.

Erastria candidula, *Treit. Schmett.* v. 263. *Boisd. Ind. Méth.*
 176, 1406. *Dup. Suppl.* iv. 78, pl. 57, f. 2. *Guen. Noct.* ii.
 128, 1007.

a—c. Europe. From M. Becker's collection.

5. ERASTRIA FUSCULA.

Fusca, nigro conspersa; abdomen cinereum, nigro cristatum; alæ anticæ lineis transversis undulatis nigris, macularum marginalibus, fascia exteriori diffusa lineaque submarginali albis, striga discali testacea; posticæ fusco-cinereæ.

———, *Engr. Pap. d'Eur.* 319, a—c.

Noctua fuscula, *Wien. Verz.* 89, 6. *Bork. Eur. Schmett.* iv. 192,
 87. *Hübner. Eur. Schmett. Noct.* pl. 60, f. 297. *Dup. Hist.*
Nat. Lép. Fr. vii. 370, pl. 123, f. 1.

Noctua polygramma, *Esp. Schmett.* iv. pl. 146, f. 7. *Bork. Eur.*
Schmett. iv. 191, 86.

Noctua strigilis, *Schæff. Icon.* ii. pl. 179, f. 4, 5.

Noctua præduncula, *Bork. Eur. Schmett.* iv. 173.

Hapalotis fuscula, *Hübner. Verz. Schmett.* 254, 2514.

Erastria fuscula, *Treit. Schmett.* v. 257, 4. *Steph. Ill. Brit. Ent.*
Haust. iii. 119. *Curt. Brit. Ent.* pl. 356. *Boisd. Ind. Méth.*
 176, 1404. *Guen. Noct.* ii. 229, 1010.

Anthophila fuscula, *Meig. Syst. Besch.* iii. 239, 1, pl. 120, f. 5.

a—i. England. From Mr. Stephens' collection.

j—p. England.

q—s. Europe. From M. Becker's collection.

t. ——— ?

North America.

6. ERASTRIA CARNEOLA.

Mas. *Albida ; thorax nigricante fasciatus ; abdomen nigro cristatum ; alæ anticæ cinereo-nigricantes, triente apicali cinerea albido lineata, lunulis marginalibus nigris, basi strigaeque lata obliqua costali albis ; posticæ cinereæ, linea marginali nigricante.*

Erastria carneola, Guen. Noct. ii. 228, 1008.

a. United States. Presented by E. Doubleday, Esq.

7. ERASTRIA NIGRITULA.

Nigricans ; abdomen punctis pallidis ; alæ anticæ macula postica, reniformi fasciaeque lata intus undulata marginali albido-carneis, lineis transversis nigris undulatis, exteriore valde flexuosa ; posticæ subcinereæ, macula discali fasciisque duabus obscurioribus.

Erastria nigritula, Guen. Noct. ii. 229, 1009.

a. East Florida. Presented by E. Doubleday, Esq.

8. ERASTRIA MUSCOSULA.

Cinerea ; alæ anticæ medio fuscae, lineis transversis undulatis et macularum marginibus albidis nigrisque, lunulis marginalibus nigris.

Erastria muscosula, Guen. Noct. ii. 230, 1011.

a, b. New York. Presented by E. Doubleday, Esq.

9. ERASTRIA ALBIDULA.

Canescens ; caput, thorax et alæ anticæ testaceo subinctæ ; alæ anticæ lineis transversis indistinctis undulatis albidis.

Erastria albidula, Guen. Noct. ii. 230, 1012.

a. United States. Presented by E. Doubleday, Esq.

10. ERASTRIA RUBICUNDA.

Cervina; thorax nigro fasciatus; abdomen cinereum; alæ anticæ lineis undulatis, strigis submarginalibus et macularum marginibus fuscis, fascia exteriori purpurea, claviformi testacea, reniformi testaceo ex parte marginata, linea submarginali testacea angulosa; posticæ cinereæ.

Fawn-colour. Thorax with a black band in front. Abdomen cinereous. Fore wings with undulating brown lines, of which one near the base and one beyond the reniform spot are darker than the others; a purple band beyond the latter line, and some brown streaks between the band and the exterior border; claviform and orbicular spots with brown borders, the former testaceous; reniform very large, partly bordered with testaceous and partly with brown; submarginal line testaceous, zigzag, whitish towards the costa. Hind wings cinereous. Length of the body 4 lines; of the wings 10 lines.

a, b. Trenton Falls, New York. Presented by E. Doubleday, Esq.

11. ERASTRIA INSCRIPTA.

Cinereo-fusca; abdomen cinereum; alæ anticæ lituris duabus costalibus guttaque apud marginem interiorem albis, linea submarginali vix conspicua, reniformi alba maxima fusco varia; posticæ cinereæ.

Cinereous-brown. Abdomen cinereous. Fore wings with two white costal marks, the first opposite the reniform spot, the second forming part of the submarginal line, which elsewhere is very indistinct; orbicular spot obsolete; reniform white, very large, marked with brown, opposite a white dot on the interior border. Hind wings cinereous. Length of the body $4\frac{1}{2}$ lines; of the wings 11 lines.

a. United States. Presented by E. Doubleday, Esq.

12. ERASTRIA VARIA.

Ferrugineo-cinerea; abdomen cinereum; alæ anticæ lineis transversis pallidioribus aut nigris subundulatis vix conspicuis, linea submarginali angulosa, orbiculari et reniformi cinereis magnis nigro ex parte marginatis, ciliis nigro interlineatis; posticæ cinereæ, margine obscuriore.

Ferruginous-cinereous. Antennæ black. Abdomen cinereous. Fore wings with the transverse lines paler or blackish, slightly undulating, very indistinct and incomplete; submarginal line zigzag; orbicular and reniform spots cinereous, large, their borders partly black, the former about half the size of the latter; ciliæ interlined with black. Hind wings cinereous, with darker borders. Length of the body 4 lines; of the wings 10 lines.

a. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

13. ERASTRIA BIPLAGA.

Mas. *Cinerea, fusco varia; abdomen fusco cristatum; alæ anticæ fuscae, nigro conspersæ, striga basali fasciæque brevi lata obliqua roseo-albis, triente marginali cinerea, linea marginali interrupta obscure fusca, orbiculari subobsoleta, reniformi nigro aut albido marginata; posticæ cinereæ.*

Male. Cinereous, varied with brown. Abdomen with brown crests. Fore wings brown, speckled with black; a basal streak and a short broad oblique band proceeding from the costa to the disk rosy-white; marginal third part cinereous; marginal line dark brown, interrupted; orbicular spot almost obsolete; reniform indicated by a black or whitish outline. Hind wings cinereous. Length of the body 4 lines; of the wings 10 lines.

a. Illinois. Presented by E. Doubleday, Esq.

Africa.

14. ERASTRIA? PUNCTIFERA.

Mas. *Fusca; abdomen cinereo-fuscum; alæ anticæ guttis variis albis, lineis transversis undulatis incompletis nigricantibus, linea submarginali e guttis nigricantibus; posticæ fuscescente-cinereæ.*

Male. Brown. Head wanting. Abdomen cinereous-brown. Fore wings with various white dots, which are mostly contiguous to the incomplete and irregular blackish transverse undulating lines; submarginal line composed of blackish dots. Hind wings brownish cinereous. Length of the body $4\frac{1}{2}$ lines; of the wings 12 lines.

a. Congo. Presented by Sir J. Richardson.

Genus 4. BANKIA.

Corpus gracile. Proboscis brevis. Palpi pilosi, oblique ascendentes; articulus 3us lanceolatus, 2i triente non longior. Antennæ corporis dimidio longiores. Abdomen alas posticas non superans. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ latiusculæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriori perparum obliquo.

Bankia, *Guen. Noct.* ii. 231.

Erastria, p., *Treit.*; *Steph.*

Anthophila, p., *Boisd.*

Body slender. Proboscis short. Palpi pilose, obliquely ascending; third joint lanceolate, about one-third of the length of the second. Antennæ more than half the length of the body. Abdomen not extending beyond the hind wings. Legs slender; hind tibiæ with long spurs. Wings rather broad. Fore wings straight in front, slightly rounded at the tips, very slightly oblique along the exterior border.

1. BANKIA ARGENTULA.

Luteo-cervina; abdomen albidum; alæ anticæ fasciis duabus obliquis albis nigro marginatis, linea marginali albida; posticæ albidæ, margine obscuriore.

Pyrallis Bankiana, *Fabr. Sp. Ins.* ii. 275, 1; *Mant. Ins.* ii. 224, 1; *Ent. Syst.* iii. 2, 242, 1.

Tortrix olivana, *Wien. Verz.* 120, 1.

Phalæna-Tortrix Bankiana, *Gmel. ed. Syst. Nat.* i. 5, 2497, 808.

Noctua argentula, *Esp. Schmett.* iv. pl. 163, f. 3. *Bork. Eur. Schmett.* iv. 798, 367. *Dup. Pap. de Fr.* vii. 373, pl. 123, f. 2.

Noctua olivea, *Hübner. Eur. Schmett. Noct.* pl. 60, f. 292.

Argyrostromis olivea, *Hübner. Verz. Schmett.* 253, 2508.

Erastria argentula, *Treit. Schmett.* v. 255, 3.

Anthophila argentula, *Meig. Handb.* 185, 100; *Syst. Besch.* iii. 242, 8, pl. 120, f. 3. *Boisd. Ind. Méth.* 174, 1399.

Bankia argentula, *Guen. Noct.* ii. 231, 1014.

a—e. England. From Mr. Stephens' collection.

f—i. Europe. From M. Becker's collection.

j. ———?

2. BANKIA OLIVULA.

Alba; alæ anticæ fascia media, maculis duabus costalibus (una basali, altera exteriori) fasciæque marginali postice dilatata olivaceo-viridibus; posticæ albo-flavæ.

Bankia olivula, Guen. Noct. ii. 231, 1013.

North America.

3. BANKIA FURCATA.

Pallide cervina; abdomen cinereum; alæ anticæ fasciis duabus pallide luteis, una media, altera marginali, orbiculari et reniformi e annulis albis, hac incompleta, illa subrotunda; posticæ cinereæ.

Pale fawn-colour. Abdomen and hind wings cinereous. Fore wings with two pale luteous bands, the one in the middle, the other marginal; orbicular and reniform spots indicated by their white outline, which in the former is nearly round, in the latter incomplete. Length of the body 3 lines; of the wings 6 lines.

a. ——— ?

Fam. 4. ANTHOPHILIDÆ.

Anthophilidæ, Dup. Cat. 184; Guen. Noct. ii. 232.

Noctuophalænidæ, Boisd.

A. Palporum articulus 3us 2i triente brevior.

A. Antennæ non pectinatæ.

a. Caput non fasciculatum.

a. Palpi porrecti.

i. Alæ longiusculæ, vix latæ.

1. GALGULA, *Guen.*

ii. Alæ latæ.

9. MICROPHYSA, *Boisd.*

b. Palpi ascendentes.

i. Proboscis sat longa.

* Palpi vix pilosi.

4. XANTHOPTERA, *Guen.*

** Palpi pilosi.

8. GLAPHYRA, *Guen.*

ii. Proboscis breviuscula.

6. ANTHOPHILA, *Ochs.*

iii. Proboscis brevissima.

5. MICRA, *Guen.*

B. Caput fasciculatum.

12. SYNTHIMIA, *Hübner.*

B. Antennæ pectinatæ.

13. TIMA, *MSS.*

B. Palporum articulus 3us 2i triente non brevior.

- A. Palpi porrecti.
 A. Pedes validi. - - - - 2. LEPTOSIA, *Guen.*
 B. Pedes graciles - - - - 7. PHYLLOPHILA, *Guen.*
 B. Palpi ascendentes. - - - - 1. HYDRELIA, *Guen.*
 C. Palporum articulus 3us 2i dimidio non brevior.
 A. Frons fasciculata. - - - - 10. MEGALODES, *Guen.*
 B. Frons non fasciculata. - - - - 11. CHOBATA, *Walk.*

Genus 1. HYDRELIA.

Corpus gracile. Proboscis brevis. Palpi ascendentes; articulus 3us cylindricus, 2i triente non brevior. Antennæ simplices, corporis dimidio non breviores. Abdomen alas posticas non superans. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ latiusculæ; anticæ apud costam rectæ, apice acutæ, margine exteriori vix obliquo.

Hydrelia, *Guen. Ann. Soc. Ent. Fr.* x. 227; *Noct.* ii. 234.

Erastria, p., *Treits.*; *Steph.*

Anthophila, p., et *Agrophila*, p., *Boisd.*

Body slender. Proboscis short. Palpi ascending; third joint cylindrical, about one-third of the length of the second. Antennæ simple, full half the length of the body. Abdomen not extending beyond the hind wings. Legs slender; hind tibiæ with long spurs. Wings rather broad. Fore wings straight in front, acute at the tips, hardly oblique along the exterior border.

Europe.

1. HYDRELIA NUMERICA.

Cinereo-olivacea; alæ anticæ fasciis quatuor undulatis lunulisque marginalibus argenteis, orbiculari et reniformi nigris albo marginatis, ciliis albo strigatis et interlineatis; posticæ palidissime cinereæ, lunulis marginalibus obscurioribus.

Agrophila Numerica, *Boisd. Ind. Méth.* 175, 1403.

Hydrelia Numerica, *Guen. Noct.* ii. 235, 1015.

Corsica. South Spain.

2. HYDRELIA UNCA.

Fusco-cinerea ; *alæ anticæ cupreo-fuscae*, *costa fascia submarginali strigaeque discali argenteo-albidis*.

———, *Engr. Pap. d'Eur.* 581, a—c.

Phalæna-Tortrix uncana, *Linn. Faun. Suec.* 1305. *Gmel. ed. Syst. Nat.* i. 5, 2498, 284. *Clerck, Icon.* pl. 3, f. 7.

Phalæna unca, *Wien. Verz.* 91, 4.

Pyralis uncana, *Fabr. Sp. Ins.* ii. 277, 8 ; *Mant. Ins.* ii. 225, 10 ; *Ent. Syst.* iii. 2, 246, 13.

Noctua unca, *Esp. Schmett.* iv. pl. 164, f. 7. *Bork. Eur. Schmett.* iv. 796, 366. *Hübner. Eur. Schmett. Noct.* pl. 60, f. 293. *Dup. Pap. de Fr.* vii. pl. 123, f. 4. *Scriba, Beitr.* pl. 10, f. 7. *Schr. Faun. Böic.* 1596.

Eustrotia unca, *Hübner. Verz. Schmett.* 253, 2505.

Phytometra unca, *Haw. Lep. Brit.* 23.

Erastria unca, *Treit. Schmett.* v. 276, 2. *Steph. Ill. Brit. Ent. Haust.* iii. 117.

Anthophila unca, *Meig. Handb.* 184, 99 ; *Syst. Besch.* iii. 240, 3, pl. 120, f. 2.

Agrophila unca, *Boisd. Ind. Méth.* 175, 1402.

Hydrelia unca, *Guen. Noct.* ii. 235, 1016.

a—d. England. From Mr. Stephens' collection.

e—h. England.

i, j. Europe. From M. Becker's collection.

North America.

3. HYDRELIA INCLUDENS.

Pallide cervina ; *abdomen sericeum, albido-cinereum* ; *alæ anticæ basi, margine interiore fasciaque obliqua roseo-albidis, reniformi alba auriformi fuscescente marginata* ; *posticæ albido-cinereæ*.

Pale fawn-colour. Abdomen and hind wings silky, whitish cinereous. Fore wings whitish, and with a rosy tinge towards the base and along the interior border, and with an oblique band of the same hue proceeding from near the tip of the wing ; orbicular spot obsolete ; reniform white, forming an ear-shaped mark, about which and on the costa by the interior side of the band there is a brownish tinge. Length of the body 4 lines ; of the wings 10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

Africa.

4. HYDRELIA INTRICATA.

Nigro-fusca ; abdomen cinereum ; alæ anticæ fasciis tribus obliquis undulatis extus cervinis intus albido-testaceis cinereo intersectis, costa vittaque discali schistaceis, fascia submarginali subrecta extus denticulata ; posticæ cinereæ, margine angusto nigricante.

Blackish brown. Abdomen cinereous. Fore wings with three oblique undulating bands, which are whitish testaceous on the inner side, pale fawn-colour on the outer side, and are slightly intersected by a cinereous line ; costa and a discal stripe slate-colour ; submarginal band like the other bands in colour, almost straight, denticulate along its exterior side. Hind wings cinereous, with narrow blackish borders. Length of the body 5 lines ; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

Asia.

5. HYDRELIA SEMILUGENS.

Cinerea ; alæ anticæ dimidio basali purpurascente tinctæ, extus obscure cinereæ, fascia intermedia nigro-fusca obliqua angulata, lituris costalibus fuscis, guttis costalibus exterioribus pallidis, guttis marginalibus nigris minutis.

Cinereous. Fore wings with a purplish tinge on more than half the surface from the base ; the rest of the wing is dark cinereous, blackish brown along the line between the two colours, which line is oblique, excavated in front and angular in the middle ; some brown costal marks, and some exterior pale costal dots ; marginal dots black, minute. Length of the body $4\frac{1}{2}$ lines ; of the wings 11 lines.

a. Hindostan. From Archdeacon Clerk's collection.

Country unknown.

6. HYDRELIA FERRUGINEA.

Mas. *Cervina ; abdomen cinereum ; alæ anticæ lineis duabus indistinctis basalibus guttularibus nigricantibus, linea media pallida undulata fusco marginata, gutta costali nigra, lineis duabus obliquis exterioribus pallidis fusco marginatis, linea intermedia guttulari nigricante.*

Male. Fawn-colour. Abdomen cinereous. Fore wings with two indistinct lines of blackish dots near the base, the second line approximate to a pale brown-bordered undulating line, beyond which and adjoining the reniform mark there is a black costal spot; two pale brown-bordered oblique exterior lines and a row of minute blackish dots between these lines, of which the outer one is submarginal, and has two white points in front. Length of the body 4 lines; of the wings 10 lines.

a. ——— ?

Genus 2. LEPTOSIA.

Corpus gracile. Proboscis brevis. Palpi longi, validi, porrecti, caput longe superantes; articulus 3us lanceolatus, 2i triente non brevior. Antennæ simplices, validæ, corporis dimidio non longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subconvexo perparum obliquo.

Leptosia, *Guen. Ann. Soc. Ent. Fr.*; *Noct.* ii. 236; *Dup.*

Bryophila, p., *Boisd.*

Anthophila, p., *Treit.*

Body slender. Proboscis short. Palpi long, stout, porrect, extending far beyond the head; third joint lanceolate, full one-third of the length of the second. Antennæ simple, stout, about half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings moderately broad. Fore wings straight in front, rounded at the tips, slightly convex and very slightly oblique along the exterior border.

1. LEPTOSIA VELOX.

Cinerea; alæ anticæ ferrugineo subobsolete conspersæ, maculis costalibus et discalibus, lineisque indistinctis nigris albido marginatis, posticæ apud marginem interiorem nigro notatæ.

Noctua velox, *Hübner. Eur. Schmett. Noct.* f. 507, 515.

Metachrostis velox, *Hübner. Verz. Schmett.* 204, 2058.

Bryophila velox, *Boisd. Ind. Méth.* 96, 728.

Anthophila velox, *Treit. Suppl.* 150.

Anthophila anomala, *Ramb. Ann. Sci. Obs.* 1829, 257. *Boisd.*

Icon. pl. 71, f. 4.

Leptosia velox, *Guen. Noct.* ii. 237, 1017.

South France.

3. LEPTOSIA MENDACULALIS.

Cinerea; alæ anticæ lineis transversis variis fuscis, fascia marginali glauca, linea submarginali nigra angulosa; posticæ lineis interruptis, basi pallidiores.

Hercyna mendaculalis, *Treit. Pyral.* vii. 185; ix. 134.

Anthophila mendaculalis, *Treit. Suppl. Noct.* x. 151. *Dup. Suppl.* iv. 388, pl. 81.

Leptosia mendaculalis, *Guen. Ann. Soc. Ent. Fr.* xi. 249; *Noct.* ii. 237, 1018.

Savoy. Dalmatia.

3. LEPTOSIA DARDOUINI.

Nigro-cinerea; alæ lineis transversis plurimis undulatis nigris.

Bryophila Dardouini, *Boisd. Ind. Méth.* 96, 727. *Herr.-Schæff. Schmett. Eur.* ii. pl. 51, f. 258.

Leptosia Dardouini, *Guen. Noct.* ii. 237, 1019.

Hyerès, South France.

4. LEPTOSIA POLYGRAMMA.

Glauca; caput et thorax anticus ferruginea; abdomen cinereum; alæ anticæ costa lineisque transversis testaceis, gutta discali nigra; posticæ cinereæ, lineis tribus testaceis.

Anthophila polygramma, *Boisd. Ind. Méth.* 174, 1392. *Dup. Suppl.* iii. 519, pl. 44, f. 3. *Herr.-Schæff. Schmett. Eur.* ii. pl. 51, f. 257.

Leptosia polygramma, *Guen. Noct.* ii. 238, 1020.

South France. Valais.

North America.

5. LEPTOSIA CONCINNIMACULA.

Canescens; alæ anticæ lineis transversis undulatis albis, litura plagaque subapicali costalibus nigricantibus, maculis albo marginatis, orbiculari guttisque marginalibus nigris.

Leptosia concinnimacula, *Guen. Noct.* ii. 238, 1021.

a. New York. Presented by E. Doubleday, Esq.

Genus 3. GALGULA.

Corpus sat gracile. Proboscis brevissima. Palpi porrecti, caput sat superantes; articulus 3us longi-conicus, minutus. Antennæ simplices, corporis dimidio non longiores. Abdomen alas posticas vix superans. Pedes graciles; tibiæ posticæ calcaribus longissimis. Alæ longiusculæ, vix latæ; anticæ apud costam subrectæ, apice angulatæ, margine exteriori sat obliquo.

Galgula, *Guen. Noct.* ii. 239.

Body rather slender. Proboscis very short. Palpi porrect, extending some distance beyond the head; third joint minute, elongate-conical, not more than one-fourth of the length of the second. Antennæ simple, about half the length of the body. Abdomen hardly extending beyond the hind wings. Legs slender; hind tibiæ with very long spurs. Wings rather long, moderately broad. Fore wings almost straight in front, angular at the tips, rather oblique along the exterior border.

1. GALGULA PARTITA.

Pallide cervina; alæ anticæ macula costali guttisque interioribus et exterioribus nigris, linea obliqua exteriori pallida; posticæ cinerascens.

Galgula partita, *Guen. Noct.* ii. 239, 1022.

a—d. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

2. GALGULA HEPARA.

Saturate hepatico fusca; alæ anticæ violaceo tinctæ, costa marginique interiore pallidioribus rufescente strigatæ, lineis transversis pallidioribus, submarginali e punctis albis, orbiculari et reniformi pallido marginatis; posticæ nigricantes, ciliis albo marginatis.

Galgula hepara, *Guen. Noct.* ii. 239, 1023.

North America.

Genus 4. XANTHOPTERA.

Corpus sat gracile. Proboscis mediocriter longa. Palpi breves, graciles, subascendentes, caput vix superantes; articulus 3us minimus. Antennæ simplices, corporis dimidio valde longiores. Abdomen alas posticas perpaullo superans. Pedes sat graciles; tibiæ posticæ calcaribus longissimis. Alæ anticæ sat latæ, apud costam vix convexæ, apice rotundatæ, margine exteriori sat obliquo. *Mas.*—Sexualia longa, fasciculata.

Xanthoptera, *Guen. Noct.* ii. 240.

Body rather slender. Proboscis moderately long. Palpi short, slender, slightly ascending, hardly extending beyond the head; third joint very minute. Antennæ simple, much more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs rather slender; hind tibiæ with very long spurs. Fore wings moderately long, hardly convex in front, rounded at the tips, rather oblique along the exterior border. *Male.*—Abdominal appendages long, tufted.

North America.

1. XANTHOPTERA NIGROFIMBRIA.

Straminea; alæ anticæ claviformi et reniformi e punctis duobus nigris, linea marginali nigra, ciliis nigro, plumbeis; posticæ cinereo-albidæ, margine obscuriore.

Xanthoptera nigrofimbria, *Guen. Noct.* ii. 241, 1025.

North America.

2. XANTHOPTERA SEMIFLAVA.

Flava; abdomen cinereum; alæ anticæ dimidio apicali oblique ferrugineo; posticæ cinereæ, margine fusciscente.

Xanthoptera semiflava, *Guen. Noct.* ii. 241, 1027.

a. United States. Presented by E. Doubleday, Esq.

3. XANTHOPTERA SEMICROCEA.

Flava; caput et prothorax fusca; abdomen cinereum; alæ anticæ dimidio apicali recte ferrugineo; posticæ cinereæ, margine fusciscente.

Xanthoptera semicrocea, *Guen. Noct.* ii. 241, 1027.

Guenée's description is from a figure by Abbot.

Georgia.

South America.

4. XANTHOPTERA BOTYOIDES.

Flava; *palpi longiusculi, apices versus fusco-fasciati*; *alæ anticae nitentes, maculis discalibus e punctis tribus nigris, margine aurato-fusco, ciliis cinereo-plumbeis*; *posticae albidæ, margine cinereo.*

Xanthoptera Botyoides, *Guen. Noct.* ii. 240, 1024.

Brazil.

5. XANTHOPTERA AURIFERA.

Luteo-flava; *abdomen cinereum*; *alæ anticae lineis duabus aut tribus obliquis subobsoletis paullo obscurioribus, linea angusta nigricante marginali*; *ciliæ alæque posticae cinereæ.*

Luteous-yellow. Abdomen cinereous. Fore wings with two or three oblique almost obsolete slightly darker lines; a slender blackish marginal line; ciliæ and hind wings cinereous. Length of the body 4 lines; of the wings 10 lines.

Brazil. In Mr. Saunders' collection.

6. XANTHOPTERA FURCATA.

Pallide lutea; *abdomen pallide testaceum*; *alæ anticae lineis duabus transversis obscurioribus, interiore angulata, exteriori recta obliqua furcam emittente, maculis discalibus obsoletis, ciliis fusciscentibus*; *posticae albæ, fusciscente marginatæ.*

Pale luteous. Abdomen pale testaceous. Fore wings with two darker transverse lines, the interior one near the base, forming an acute angle; the other one exterior, straight, oblique, extending from the tip of the wing, near which it emits a branch to the costa; discal spots obsolete; ciliæ brownish. Hind wings white, with brownish borders. Length of the body $4\frac{1}{2}$ lines; of the wings 10 lines.

Brazil. In Mr. Saunders' collection.

Genus 5. MICRA.

Corpus gracile. Proboscis brevissima. Palpi breves, ascendentes; articulus 3us conicus, brevissimus. Antennæ simplices, graciles, corporis dimidio non breviores. Abdomen alas posticas superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ mediocriter latæ, late ciliatæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore perparum obliquo.

Micra, *Guen. Ann. Soc. Ent. Fr.* x. 224; *Noct.* ii. 241.

Erastria et Anthophila, p., *Treits.*; *Steph.*

Anthophila, p., *Boisd.*

Body slender. Proboscis very short. Palpi short, ascending; third joint conical, minute, not more than one-fourth of the length of the second. Antennæ simple, slender, full half the length of the body. Abdomen not extending beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings moderately broad, deeply ciliated. Fore wings straight in front, somewhat rounded at the tips, very slightly oblique along the exterior border.

1. MICRA CANDIDANA.

Albida; alæ anticæ albo-testaceæ, punctis duobus discalibus nigris, fascia obliqua indistincta testacea.

Pyralis candidana, Fabr. Ent. Syst. iii. 2, 245, 11. *Coqueb. Ill. Icon.* pl. 8, f. 8.

Tortrix perlana, Hübn. Eur. Schmett. Tort. f. 316.

Noctua minuta, Hübn. Eur. Schmett. Noct. pl. 96, f. 451.

Trothisa minuta, Hübn. Verz. Schmett. 257, 2532.

Erastria minuta, Treit. Schmett. v. 266, 9.

Anthophila minuta, Meig. Syst. Besch. iii. 243, 11, pl. 119, f. 17. *Boisd. Ind. Méth.* 174, 1397.

Anthophila parva, Dup. Suppl. iii. 525, pl. 44, f. 6.

Micra candidana, Guen. Noct. ii. 242, 1028.

a, b. Europe. From M. Becker's collection.

2. MICRA SKAFIOTA.

Alba; alæ anticæ fasciis duabus obliquis, fuscis 2a lata marginali intus excisa, macula costali intermedia fusca; posticæ margine subfuscescente.

Anthophila Skafiota, Herr.-Schæff. Schmett. Eur. ii. pl. 56, f. 282.
Micra Skafiota, Guen. Noct. ii. 243, 1029.

a. South Europe. From Dr. Frivaldsky's collection.

3. MICRA ELYCHRYSI.

Albida; *alæ anticæ olivaceo-cinereæ, fasciis duabus albis, interiore arcuata, exteriori dentata, linea submarginali albida undulata.*

Erastria Elychrysi, Ramb. Ann. Soc. Ent. Fr. ii. 24, pl. 2, f. 15.

Corsica.

4. MICRA VIRIDULA.

Pallide olivaceo-viridis; *thorax subflavescens*; *pulporum articulus 3us apice vix incisus*; *alæ anticæ fasciis albidis, basi cinereo subinctæ, striga obliqua apicali rufescente nebuloza*; *posticæ cinereæ, ciliis albis.*

Micra viridula, Guen. Ann. Soc. Ent. Fr.; Noct. ii. 244, 1031.

Anthophila Elychrysi? Herr.-Schæff. Schmett. Eur. ii. pl. 50, f. 250.

Austria. Hungary.

5. MICRA PAULA.

Alba; *alæ anticæ fasciis duabus latissimis diffusis cinereis, maculis costalibus obscurioribus, punctis marginalibus nigris*; *posticæ cinereæ, margine obscuriore.*

Noctua Paula, Hubn. Eur. Schmett. Noct. pl. 96, f. 452.

Trothisa Paula, Hübn. Verz. Schmett. 256, 2531.

Erastria Paula, Treit. Schmett. v. 268, 10.

Anthophila Paula, Meig. Syst. Besch. iii. 243, 10, pl. 119, f. 16.

Eversm. Faun. Volg-Ural. 335. *Boisd. Ind. Méth.* 174, 1394.

Dup. Suppl. iii. 527, pl. 44, f. 7; pl. 47, f. 2.

Micra Paula, Guén. Noct. ii. 244, 1033.

a—d. Europe. From M. Becker's collection.

e, f. Europe.

6. MICRA PARVA.

Testacea; *abdomen albidum*; *alæ anticæ punctis nonnullis nigris, fasciis duabus obliquis cervinis albido marginatis*; *posticæ albidæ, margine subcervino.*

Noctua parva, *Hüb. Eur. Schm. Noct. f.* 356.

Eromene parva, *Hüb. Verz. Schm. 256, 2530.*

Anthophila parva, *Treit. Schm. v.* 269. *Boisd. Ind. Méth. 174, 1396.*

Anthophila minuta, *Dup. Suppl. iii.* 557, pl. 47, f. 1.

Micra parva, *Guen. Noct. ii.* 246, 1037.

a. South Europe. From Dr. Frivaldsky's collection.

7. MICRA OSTRINA.

Albida; caput lutescens; alæ anticæ fasciis duabus plus minusve diffusis radiatis purpurascentibus, plaga costali lineaque submarginali undulata dentata albis; posticæ cinereæ, ciliis albis.

Noctua ostrina, *Hüb. Eur. Schm. Noct. f.* 399, 648.

Eromene ostrina, *Hüb. Verz. Schm. 256, 2529.*

Anthophila ostrina, *Treit. Schm. v.* 270. *Eversm. Faun. Volg-Ural. 335.* *Boisd. Ind. Méth. 174, 1384.* *Dup. Suppl. iii.* 514, pl. 44. *Curt. Brit. Ent. pl.* 140. *Steph. Ill. Brit. Ent. Haust. iii.* 119.

Micra ostrina, *Guen. Noct. ii.* 246, 1039.

a—e. Europe. From M. Becker's collection.

8. MICRA PURPURINA.

Flava, subtus cana; abdomen canum; pedes antichi supra rosei; alæ anticæ roseæ, linea transversa flexuosa saturatiore, triente basali flava fulvescente-marginata, margine exteriori canescente linea transversa rosea; posticæ cinereæ, basi pallidiores.

———, *Engr. Pap. d' Eur. 539, a—c.*

Noctua purpurina, *Wien. Verz. 88, 9.* *Fabr. Mant. Ins. ii.* 167, 215; *Ent. Syst. iii.* 2, 90, 268. *Esp. Schm. iv.* pl. 163, f. 4. *Bork. Eur. Schm. iv.* 655, 279. *Hüb. Eur. Schm. Noct. pl.* 61, f. 298. *Dup. Pap. de Fr. vii.* pl. 123, f. 7.

Phalæna-Noctua purpurina, *Gmel. ed. Syst. Nat. i.* 5, 2577, 1178.

Anthophila purpurina, *Treit. Schm. v.* 276, 2. *Meig. Syst. Besch. iii.* 241, 6, pl. 120, f. 7. *Eversm. Faun. Volg-Ural. 336.* *Boisd. Ind. Méth. 173, 1383.* *Zeller, Ent. Zeit. Stett. vi.* 356.

Porphyrinia purpurina, *Hüb. Verz. Schm. 256, 2527.*

Micra purpurina, *Guen. Noct. ii.* 247, 1040.

a, b. Europe. From M. Becker's collection.

West Indies.

9. MICRA MINIMA.

Var.? *Albida; alæ anticæ fasciis duabus obliquis diffusis rufo-ferrugineis, punctis paucis nigris.*

Micra minima, Guen. Noct. ii. 246, 1038.

Isle St. Thomas.

a. United States. Presented by E. Doubleday, Esq.

South America.

10. MICRA DEBILIS.

Alba, flavo ex parte tincta; abdomen cinereum, basi album; alæ anticæ linea recta indistincta fulva, extus æneo tinctæ; posticæ æneo marginatæ.

White, tinged here and there with yellow. Abdomen cinereous, white at the base. Fore wings with a straight indistinct tawny line, extending from near the tip of the costa to the middle of the interior border; an æneous tinge between this line and the exterior border. Hind wings with a slender æneous border. Length of the body $3\frac{1}{2}$ lines; of the wings 8 lines.

a. Venezuela. From Mr. Dyson's collection.

Africa.

11. MICRA RECTA.

Pallide ochracea, rufo-conspersa, costa pallida, linea apicali obliqua recta ochracea intus fusco nebulosa lineaque altera apicali subobsoleta angulum fignentibus, macula subapicali obscura, linea marginali rufa, ciliis fusciscentibus apice albis; posticæ albo-ochraceæ, margine rufescente, ciliis pallidis.

Micra recta, Guen. Noct. ii. 245, 1034.

Sierra Leone?

12. MICRA EXIGUA.

Alba; alæ anticæ fasciis duabus obliquis fusciscentibus subcontiguis ex parte connexis, guttis paucis minutis submarginalibus unaque discali nigris; posticæ margine subcinerascente.

White. Fore wings with two oblique nearly contiguous and

partly connected brownish bands, which occupy the exterior two-thirds of the wing, the white space between them very irregular; one discal and a few submarginal minute black dots. Hind wings with slightly cinereous borders. Length of the body 2 lines; of the wings 5 lines.

a. Presented by the Rev. D. F. Morgan.

13. MICRA TINEOIDES.

Alba; alæ anticæ apud costam fusco conspersæ, fascia exteriorè perobliqua fusca intus diffusa, maculis duabus discalibus nigro conspersis, margine exteriorè cinereo.

White. Fore wings speckled with brown along the costa, and with a very oblique brown band beyond the middle; this band is diffuse on the interior side, but is well defined on the exterior one; two spots composed of black flecks in a line on the disk; exterior border cinereous. Length of the body $2\frac{1}{2}$ lines; of the wings 6 lines.

a. Port Natal. From Dr. Krauss' collection.

Mauritius.

14. MICRA CONCHYLIOIDES.

Pallide straminea; alæ anticæ angustæ, lineis duabus obliquis rectis fuscescentibus, nebula intermedia subrosea, striga brevi fuscescente nigro punctata apud angulum interiorem; posticæ albidæ, linea marginali fuscescente.

Micra conchylioides, Guen. Noct. ii. 245, 1035.

Isle Bourbon. Mauritius.

Asia.

15. MICRA WAGNERI.

Viridescente-cinerea; palporum articulus 3us apice valde incisus; alæ anticæ rufescente tinctæ, fascia media obliqua lineaque marginali albis; posticæ cinereæ, ciliis albis cinereo bilineatis.

Micra Wagneri, Guen. Noct. ii. 244, 1032.

Amasieh, Asia Minor.

Australia.

16. MICRA ROSITA.

Flavescens ; alæ anticæ angustæ, lineis duabus obliquis rectis fuscescentibus, spatio intermedio roseo, striga apud angulum anteriorem brevi fuscescente nigro punctata antice flava ; posticæ albæ, linea marginali fuscescente.

Micra rosita, Guen. Noct. ii. 245, 1036.

Australia.

17. MICRA DEROGATA.

Flavescens-alba ; abdomen vix testaceum ; alæ anticæ fascia lata obliqua rosea intus cervino marginata extus postice dilatata, fascia marginali cervina intus postice nigro notata ; posticæ albidæ, margine subfuscescente.

Yellowish white. Abdomen with a slight testaceous tinge. Fore wings with a broad oblique rosy band, which is bordered with fawn-colour on its interior side, and is dilated hindward on its exterior side ; a fawn-coloured marginal band marked with black hindward on its interior side. Hind wings whitish, with pale brownish borders. Length of the body $2\frac{1}{2}$ lines ; of the wings 7 lines.

a. Australia. Presented by J. Hunter, Esq.

b. Sydney. From Mr. Stevens' collection.

Genus 6. ANTHOPHILA.

Corpus gracile. Proboscis breviuscula. Palpi ascendentes ; articulus 3us longi-conicus, 2i triente brevior. Antennæ simplices, corporis dimidio perparum longiores. Abdomen alas posticas perparum superans. Pedes sat graciles ; tibiæ posticæ calcaribus longis. Alæ mediocriter latæ ; anticæ apud coctam rectæ, apice subangulatæ, margine exteriore perparum convexo et obliquo.

Anthophila, Ochs. ; Treit. ; Boisd. ; Dup. ; Guen. Ann. Soc. Ent. Fr. x. 223 ; Noct. ii. 247.

Body slender. Proboscis rather short. Palpi ascending ; third joint elongate-conical, not one-third of the length of the second. Antennæ simple, very little more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs rather slender ; hind tibiæ with long spurs. Wings mode-

rately broad. Fore wings straight in front, somewhat angular at the tips, very slightly convex and oblique along the exterior border.

Europe.

1. ANTHOPHILA PANNONICA.

Albida; alæ anticæ flavæ, fascia lata exteriore glauca albido lineata, margine exteriore cervino; posticæ albidæ, margine lato cinereo, ciliis testaceis.

Anthophila Pannonica, Frey. *Beitr.* iv. pl. 330, f. 3, 4. *Guen. Noct.* ii. 249, 1043.

Anthophila Kindermannii, Boisd. *Ind. Méth.* 174, 1387. *Herr.-Schæff. Schmett. Eur.* ii. pl. 50, f. 253, 254.

Anthophila lenis, Eversm. *Faun. Volg-Ural.* 338.

Hungary. South Russia.

2. ANTHOPHILA ROSINA.

Alba; alæ anticæ pallide purpureæ, fascia viridescente intus pallidiore extus angulata alboque marginata, fascia exteriore subduplicata purpurea, apud apicem interrupta viridescente; posticæ margine lato subcinereo.

Noctua rosina, Hübn. *Eur. Schmett. Noct.* f. 299.

Porphyrinia rosina, Hübn. *Verz. Schmett.* 256, 2527.

Anthophila rosina, Eversm. *Faun. Volg-Ural.* 337. *Dup. Suppl.* iv. 237, pl. 70. *Zeller, Ent. Zeit. Stett.* vi. 356. *Guen. Noct.* ii. 250, 1045.

Anthophila purpurina, var. ? Boisd. *Ind. Méth.* 173, 1383.

a—d. Europe. From M. Becker's collection.

3. ANTHOPHILA AMÆNA.

Alba; alæ anticæ ex parte cinereæ, fasciis duabus diffusis undulatis fuscescentibus albo marginatis, punctis tribus discalibus nonnullisque marginalibus nigris; posticæ albidæ, fasciis nonnunquam quatuor cinereis.

Noctua amæna, Hübn. *Eur. Schmett. Noct.* f. 300.

Noctua respersa, Hübn. *Beitr.* pl. 2, H. *Bork. Eur. Schmett.* iv. 265.

Eublemma amæna, Hübn. *Verz. Schmett.* 256, 2526.

Anthophila amæna, Treit. Schmett. v. 283. Eversm. Faun. Volg-Ural. 340. Boisd. Ind. Meth. 174, 1390. Dup. Suppl. iii. 584, pl. 48, f. 6. Guen. Noct. ii. 250, 1046.

a—d. Europe. From M. Becker's collection.

4. ANTHOPHILA ALBIDA.

Alba; *alæ anticæ marginem versus cinereo nebulosæ, lineis exteriore et submarginali approximatis parallelis linea media rufa subrecta intersectis, striga apicali rufa, punctis tribus nigris, ciliis apice rufescentibus*; *posticæ albæ, fascia submarginali vaga cinerea.*

Anthophila albida, Dup. Suppl. iv. 382, pl. 81, f. 1. Guen. Noct. ii. 250, 1047.

South Spain? Algeria.

5. ANTHOPHILA GRATA.

Alba; *palpi longiusculi, articulo 3o bene determinato; antennæ pubescentes, subciliatæ; alæ anticæ validæ, velutinæ, lineis fusciscentibus vix conspicuis, nebula media lineaque exteriore rotundatis subparallelis, submarginali pallida fundo fusciscente, orbiculari e puncto nigro, reniformi e squamis fuscis*; *posticæ albæ, cinereo tinctæ, ciliis candidis.*

Anthophila grata, Boisd. MSS. Guen. Noct. ii. 251, 1048.

South Spain.

6. ANTHOPHILA ALBICANS.

Alba; *palpi subrufescentes; alæ anticæ rufescente-albæ, apud costam subexcavatæ, apice elongatæ, margine rotundato, puncto discali fusco*; *posticæ margine subobscuræ.*

Hæmerosia albicans, Ramb. Faun. Andal. Boisd. Ind. Meth. 164, 1314.

Anthophila albicans, Guen. Noct. ii. 251, 1049.

Andalusia.

7. ANTHOPHILA PARALLELA.

Cana; *alæ anticæ fasciis obliquis arcuatis parallelis (1a latiore), fuscisque duabus exterioribus viridi-cinereis*; *macula costali subapicali alba*; *posticæ cinereæ, ciliis apice albis.*

Anthophila parallela, *Eversm. Faun. Volg-Ural.* 339. *Dup. Suppl.* iv. 86, pl. 57, f. 6. *Freyer, Neue Beitr.* pl. 360, f. 1; *Ent. Zeit. Stett.* ii. 110. *Herr.-Schæff. Schmett. Eur.* ii. pl. 59, f. 299. *Guen. Noct.* ii. 252, 1050.

South Russia.

a—g. Europe. From M. Becker's collection.

8. ANTHOPHILA CONCINNULA.

Glauescens; abdomen cinereum; alæ anticæ costa basi fasciisque tribus angulatis albis, maculis duabus discalibus unaque costali subapicali nigro-fuscis; posticæ cinereæ, margine nigricante.

Anthophila concinnula, *Boisd. Ind. Méth.* 1393. *Freyer, Neue Beitr.* pl. 360, f. 2; *Ent. Zeit.* ii. 110. *Herr.-Schæff. Schmett. Eur.* ii. pl. 51, f. 252.

Anthophila pusilla, *Eversm. Bull. Soc. Imp. Mosc.* 1837, 1; *Faun. Volg-Ural.* 339. *Guen. Noct.* ii. 253, 1051.

Anthophila proxima, *Fisch. Bull. Mosc.* 1840, 88.

South Russia.

9. ANTHOPHILA PURA.

Albida; alæ anticæ linea obliqua margineque exteriore cervinis, ciliis testaceis basi albis.

Noctua pura, *Hübner. Eur. Schmett. Noct.* f. 579.

Ecthetis pura, *Hübner. Verz. Schmett.* 257, 2533.

Anthophila pura, *Boisd. Ind. Méth.* 174, 1398. *Guen. Noct.* ii. 253, 1052.

a, b. Europe. From M. Becker's collection.

West Indies.

10. ANTHOPHILA ERECTA.

Pallide testacea; alæ anticæ lineis quatuor albidis obscuro marginatis, 1a et 2a subrectis, 3a et 4a arcuatis, guttis duabus apud maculam reniformem guttisque submarginalibus nigricantibus; posticæ albidæ, testaceo marginatæ.

Pale testaceous. Fore wings with four whitish lines, with darker borders; first and second lines interior, nearly straight;

third and fourth exterior curved; orbicular spot obsolete; reniform distinguished by two blackish dots; a row of minute submarginal blackish dots. Hind wings whitish, with slightly testaceous borders. Length of the body 4 lines; of the wings 10 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.

c. St. Domingo.

Africa.

11. ANTHOPHILA FOEDOSA.

Sordide alba; alæ anticæ squamis fuscis, apud marginem ferrugineo tinctæ, striga parva obliqua apicali fusca, maculis discalibus e punctis duobus nigris, striga discali fusca; posticæ flavescente-albæ.

Anthophila foedosa, Guen. Noct. ii. 254, 1053.

Cape.

12. ANTHOPHILA NUMIDA.

Caput squamoso-flavescens; antennæ fusco-rufescentes; thorax et abdomen alba; alæ anticæ supra sublusque flavescents, ad apicem macula rufescente ornata, hac nigro unipunctata; posticæ fimbriaque albæ.

Anthophila numida, Lucas, Explor. Scient. de l'Alger. Anim. Artic. iii. 388, 119, pl. 3, f. 8.

Algiers.

Asia.

13. ANTHOPHILA AMASINA.

Albida; alæ anticæ flavæ, dimidio exteriore roseo, linea undulata guttisque submarginalibus albidis nigro marginatis, margine exteriore pallidiore; posticæ cinereæ, basi ciliisque albidis.

Anthophila Amasina, Herr.-Schæff. Schmett. Eur. ii. pl. 56, f. 280.
Guen. Noct. ii. 249, 1044.

Amasieh, Asia Minor.

14. ANTHOPHILA INDECISA.

Pallidissime albido-cervina; abdomen albidum; alæ anticæ lineis pallide luteis vix conspicuis, maculis discalibus obsoletis; posticæ albæ, margine cinerascens.

Very pale whitish fawn-colour. Abdomen whitish. Fore wings with pale very indistinct luteous lines; discal spots obsolete. Hind wings white, with slight cinereous borders. Length of the body $4\frac{1}{2}$ lines; of the wings 12 lines.

a. Punjab. Presented by General Hearsay.

15. ANTHOPHILA MARGINALIS.

Testacea; caput antice et palpi supra fusca; thorax postice et abdomen alba; alæ anticæ costa, margine interiore ciliisque roseis; orbiculari et reniformi obsoletis; posticæ albidæ, testaceo marginatæ.

Testaceous. Head in front and palpi above brown. Thorax hindward and abdomen white. Fore wings rosy along the costa and along the interior border, and with rosy ciliæ; orbicular and reniform spots obsolete. Hind wings whitish, with testaceous borders. Length of the body 5 lines; of the wings 12 lines.

a. North India. From Mr. Stevens' collection.

Country unknown.

16. ANTHOPHILA LINEATA.

Albida; alæ anticæ fasciis quatuor rectis obliquis subæneis, 4a marginali indistincta, maculis discalibus obsoletis; posticæ margine subæneo.

Whitish. Fore wings with four straight oblique slightly æneous bands; fourth band marginal, indistinct; discal spots obsolete. Hind wings with slightly æneous borders. Length of the body 3—4 lines; of the wings 9—11 lines.

a, b. ———?

17. ANTHOPHILA DIVERGENS.

Pallide testaceo-cervina; abdomen pallide testaceum; alæ anticæ lineis duabus obliquis albidis apud medium approximatis, maculis discalibus obsoletis; posticæ pallidissime testaceæ, margine obscuriore.

Pale testaceous fawn-colour. Abdomen pale testaceous. Fore wings with two oblique whitish lines, which diverge from each other in front and behind; discal spots and the other marks obso-

lete. Hind wings very pale testaceous, with rather darker borders. Length of the body $4\frac{1}{2}$ lines; of the wings 11 lines.

a. ——— ?

Genus 7. PHYLLOPHILA.

Corpus gracile. Proboscis brevissima. Palpi porrecti, caput perpaullo superantes; articulus 3us lanceolatus, 2i triente non brevior. Antennæ simplices, corporis dimidio paullo longiores. Abdomen alas posticas vix superans. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ latiusculæ; anticæ apud costam rectæ, apice subangulatæ, margine exteriore subobliquo.

Phyllophila, *Guen. Noct.* ii.

Body slender. Proboscis very short. Palpi porrect, extending very little beyond the head; third joint lanceolate, about one-third of the length of the second. Antennæ simple, a little more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs slender; hind tibiæ with long spurs. Wings rather broad. Fore wings straight in front, slightly angular at the tips, slightly oblique along the exterior border.

1. PHYLLOPHILA WIMMERII.

Cana; alæ anticæ fasciis indistinctis et incompletis fusciscentibus, macula discali guttisque marginalibus nigricantibus; posticæ ciliis albis.

Anthophila Wimmerii, *Treit. Suppl.* x. 148. *Frey. Beitr.* 511, pl. 162, f. 4, 5. *Dup. Suppl.* iii. 516, pl. 44, f. 2. *Boisd. Ind. Méth.* 174, 1391. *Herr.-Schæff. Schmett. Eur.* ii. pl. 50, f. 255.

Phyllophila Wimmerii, *Guen. Noct.* ii. 254, 1054.

Var. Anthophila obliterata, *Ramb. Ann. Soc. Ent. Fr.* ii. 27, pl. 2, f. 17.

a, d. Europe. From M. Becker's collection.

Genus 8. GLAPHYRA.

Corpus gracile. Proboscis mediocriter longa. Palpi pilosi, mediocriter longi, oblique ascendentes; articulus 3us cylindricus, breviusculus. Antennæ corporis dimidio longiores. Abdomen alas posticas non superans. Pedes sat graciles; tibiæ posticæ calcaribus

longissimis. Alæ mediocriter latæ; anticæ apud costam rectæ, àpice subangulatæ aut parum rotundatæ, margine exteriori plus minusve obliquo et convexo. *Mas.*—Antennæ subciliatæ.

Glaphyra, *Guen. Ann. Soc. Ent. Fr.* x. 232; *Noct.* ii. 255.

Anthophila, p., *Treits.*; *Boisd.*

Body slender. Proboscis moderately long. Palpi pilose, moderately long, obliquely ascending; third joint cylindrical, not more than one-fourth of the length of the second. Antennæ more than half the length of the body. Abdomen not extending beyond the hind wings. Legs rather slender; hind tibiæ with very long spurs. Wings moderately broad. Fore wings straight in front, slightly angular or somewhat rounded at the tips, more or less slightly oblique and convex along the exterior border. *Male.*—Antennæ slightly ciliated.

1. GLAPHYRA GLAREA.

Alba aut cana; alæ fasciis indistinctis testaceis aut cinereis; anticæ breviores, minus acutæ, maculis costalibus obscurioribus punctis submarginalibus nigris.

Anthophila glarea, *Treit. Schmett.* v. 282; *Suppl.* 148. *Frey.*

Beitr. 135, f. 2. *Herr.-Schæff. Schmett. Eur.* ii. pl. 51, f. 259.

Glaphyra glarea, *Guen. Noct.* ii. 256, 1055.

Dalmatia.

2. GLAPHYRA CRETULA.

Alba aut cana; alæ fasciis indistinctis testaceis, aut cinereis; anticæ longiores, plus acutæ, maculis costalibus obscurioribus, punctis submarginalibus nigris.

Anthophila cretula, *Freyer, Neue Beitr.* pl. 360, f. 4, 5; *Ent. Zeit. Stett.* ii. 110.

Anthophila glarea, *Boisd. Ind. Méth.* 174, 1389. *Dup. Suppl.* iii. 561, pl. 47.

Glaphyra cretula, *Guen. Noct.* ii. 256, 1056.

a, b. Europe. From M. Becker's collection.

Genus 9. MICROPHYSA.

Corpus gracile. Proboscis brevissima. Palpi porrecti, caput sat superantes; articulus 3us conicus, minimus. Antennæ corporis dimidio vix longiores. Abdomen alas posticas non superans. Pedes mediocriter validi; tibiæ posticæ calcaribus longissimis. Alæ latæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore vix obliquo. *Mas.*—Antennæ ciliatæ.

Microphysa, *Boisd.* *Guen. Ann. Soc. Ent. Fr.* x. 233.

Ophiusa, p., *Treits.*

Body slender. Proboscis very short. Palpi porrect, extending rather beyond the head; third joint conical, very minute, not more than one-sixth part of the length of the second. Antennæ hardly more than half the length of the body. Abdomen not extending beyond the hind wings. Legs moderately stout; hind tibiæ with very long spurs. Wings broad. Fore wings straight in front, slightly rounded at the tips, hardly oblique along the exterior border. *Male.*—Antennæ moderately ciliated.

1. MICROPHYSA REGULARIS.

Violaceo aut fuscesciente-cinerea; alæ anticæ rotundatæ, triente apicali fusco nitido, linea intermedia ochracea, subarcuata extus nigro lineolata, fascia interiore nigra vaga, reniformi e striga angusta nigra.

Noctua regularis, *Hübner. Eur. Schmett. Noct.* f. 588.

Odice regularis, *Hübner. Verz. Schmett.* 258, 2541.

Ophiusa regularis, *Treit. Schmett.* v. 315. *Eversm. Faun. Volg-Ural.* 344. *Dup. Suppl.* iii. 521, pl. 44.

Microphysa regularis, *Boisd. Ind. Méth.* 171, 1370. *Guen. Noct.* ii. 259, 1059.

South Russia.

2. MICROPHYSA INAMÆNA.

Fusco-cinerea; alæ anticæ fasciis tribus una mediana duabusque exterioribus undulatis fuscis pallido marginatis; posticæ cinerea, macula margineque nigricantibus.

———, *Engr. Pap. d' Eur.* 537, a—c.

Noctua inamæna, *Hübner. Eur. Schmett. Noct.* f. 301, 302.

Odice inamæna, *Hübner. Verz. Schmett.* 258, 2540.

Ophiusa inamæna, *Treit. Schmett.* v. 285. *Frey. Beitr.* iv. 365, f. 1, 2; *Ent. Zeit. Stett.* ii, 111. *Eversm. Faun. Volg-Ural.* 343. *Dup. Suppl.* iii. 504, pl. 43.

Microphysa inamæna, *Boisd. Ind. Méth.* 170, 1367. *Guen. Noct.* ii. 259, 1060.

Austria. Hungary.

a—c. Europe. From M. Becker's collection.

3. MICROPHYSA INGRATA.

Straminea; *alæ anticæ strigis duabus costalibus, fascia intermedia guttisque submarginalibus albis cinereo marginatis, macula apicali nigra, margine cinereo*; *posticæ fasciis tribus albis cinereo marginatis, margine cinereo.*

Noctua inamæna, var. *ingrata*, *Frey. Beitr.* pl. 365, f. 3.

Microphysa inamæna, var. *ingrata*, *Herr.-Schæff. Schmett. Eur.* ii. f. 278, 279.

Microphysa ingrata, *Boisd. MSS.* *Guen. Noct.* ii. 259, 1061.

South Spain.

4. MICROPHYSA SUAVA.

Ferruginea; *abdomen cinerascens*; *alæ anticæ fascia media arcuata alba intus nigro marginata, linea submarginali albida incompleta undulata, maculis discalibus obsoletis, ciliis cinereis*; *posticæ fuscæ, basi cinereæ, fasciis duabus incompletis albis.*

Noctua suava, *Hübner. Eur. Schmett. Noct.* f. 578. *Frey. Beitr.* iv. pl. 365, f. 4, 5.

Eublemma suava, *Hübner. Verz. Schmett.* 256, 2525.

Ophiusa suava, *Treit. Suppl.* 157.

Microphysa suava, *Boisd. Ind. Méth.* 170, 1368. *Guen. Noct.* ii. 260, 1062.

South France. Spain. Hungary.

Var.? Ferruginous. Abdomen somewhat cinereous. Fore wings with a white curved middle band, which is diffusedly bordered with black on its interior side; submarginal line whitish, incomplete, undulating; discal spots obsolete; ciliæ cinereous. Hind wings brown, cinereous at the base, with two irregular and incomplete white bands. Length of the body 5 lines; of the wings 12 lines.

Var. *Cervina*; *abdomen cinerascens*; *alæ anticæ lineis tribus undulatis ferrugineis, linea submarginali subrecta diffusa indistincta, litura costali alba, maculis discalibus obsoletis, guttis marginalibus nigricantibus, ciliis cinereis*; *posticæ pallide cinereæ, lineatæ, ferrugineo marginatæ*.

Fawn-colour. Abdomen more cinereous. Fore wings with three undulating ferruginous lines, which are most distinct towards the costa; submarginal line nearly straight, diffuse and indistinct; marginal dots blackish; discal spots obsolete; a white mark on the costa by the second line; ciliæ cinereous. Hind wings pale cinereous, with ferruginous borders; their lines much like those of the fore wings. Length of the body $5\frac{1}{2}$ lines; of the wings 13 lines.

a. From M. Becker's collection.

5. MICROPHYSA JUCUNDA.

Fusco-cinerea fascia pallida; *alæ anticæ fasciis tribus variis fuscis, una exterior diffusa cervina, gutta costali subapicali albida*; *posticæ maculis duabus discalibus albis*.

Noctua jucunda, Hübn. *Eur. Schmett.* Noct. pl. 103, f. 486; pl. 105, f. 492. *Dup. Hist. Nat. Lép. Fr.* vii. 280, pl. 117, f. 6.

Melipotis jucunda, Hübn. *Verz. Schmett.* 260, 2559.

Ophiusa jucunda, *Treit. Schmett.* v. 314, 14. *Meig. Syst. Besch.* iii. 208, 11, pl. 113, f. 10.

Microphysa jucunda, *Boisd. Ind. Méth.* 170, 1369. *Guen. Noct.* ii. 260, 1063.

Ennychia sepulchralis, *Treit. Schmett.* vii. 199. *Frey. Beitr.* pl. 84, f. 4. *Meig. Syst. Besch.* iii. 236, 5, pl. 123, f. 5.

a. Europe. From M. Becker's collection.

North America.

6. MICROPHYSA SOBRIA.

Fuscescente-cervina; *abdomen cinereum lineis subobliquis subrectis fere obsoletis, submarginali conspicua guttulari lunulisque marginalibus nigro-fuscis, maculis discalibus obsoletis*; *posticæ fascia discali margineque pallide cervinis*.

Brownish fawn-colour. Abdomen cinereous. Fore wings with the lines slightly oblique, nearly straight, almost obsolete, except the submarginal one, which is composed of dark brown dots; marginal lunules dark brown; discal spots obsolete. Hind wings with

a discal band, and the border paler fawn-colour. Length of the body $5\frac{1}{2}$ lines; of the wings 14 lines.

a. United States. From Mr. Dyson's collection.

Africa.

7. MICROPHYSA ARVORUM.

Mas. *Cinereo-fusca*; *alæ anticæ dimidio postico obscuriore, lineæ intermedia nigra arcuata intus rufescente lineolata, macula nigra, lituris ciliis multis aut subobsoletis; posticæ cinereæ.*

Microphysa arvorum, Guen. Noct. ii. 258, 1057.

Cape.

8. MICROPHYSA NAMACENSIS.

Cinerascens; *palpi nigri, basi albi; alæ anticæ sericeæ, lineis parallelis undulatis nigricantibus, reniformi flava nigro marginata, fascia submarginali fusca cinerea lineata, lineolis marginalibus nigricantibus; posticæ pallidiores, margine lato lineisque duabus nigricantibus.*

Microphysa Namacensis, Guen. Noct. ii. 258, 1058.

South Africa.

Country unknown.

9. MICROPHYSA CONTRACTA.

Fuscescente-cinerea; *alæ anticæ nigro-fusæ, fascia media lata obliqua fusco cinerea albo marginata medio contracta, lineæ submarginali albida subrecta; posticæ paullo pallidiores.*

Brownish cinereous. Abdomen a little paler than the thorax. Fore wings blackish brown, with a broad oblique brownish cinereous middle band, which is bordered with white, and is widened in front and behind; submarginal line whitish, almost straight. Hind wings a little paler than the fore wings. Length of the body $4\frac{1}{2}$ lines; of the wings 11 lines.

a, b. ———? From Mr. Milne's collection.

Genus 10. MEGALODES.

Corpus sat gracile. Frons fasciculata. Proboscis brevis. Palpi porrecti, caput superantes; articulus 3us cylindricus, 2i dimidio longior. Antennæ validæ. Abdomen alas posticas paullo superans. Pedes sat graciles; tibiæ posticæ calcaribus longis. Alæ longiusculæ, sat latæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori sat obliquo. *Mas.*—Antennæ serratæ, breviusculæ. *Fem.*—Antennæ simplices, longiores.

Megalodes, *Guen. Noct.* ii. 261.

Body rather slender. Front tufted. Proboscis short. Palpi porrect, extending beyond the head; third joint cylindrical, more than half the length of the second. Antennæ stout. Abdomen extending a little beyond the hind wings. Legs rather slender; hind tibiæ with long spurs. Wings rather long, moderately broad. Fore wings straight in front, angular at the tips, rather oblique along the exterior border. *Male.*—Antennæ serrated, rather short. *Female.*—Antennæ longer, simple.

1. MEGALODES EXIMIA.

Olivaceo-cinerea; capitis fasciculus apice niger; alæ anticæ fasciis tribus obliquis et macularum marginibus albidis, fascia 2a angulata; posticæ fascia subobsoleta ciliisque albidis.

Noctua eximia, *Herr.-Schæff. Schmett. Eur.* ii. pl. 78, f. 399.

Megalodes eximia, *Guen. Noct.* ii. 261, 1064.

Amasich.

a, b. Asia Minor. From M. Becker's collection.

Genus 11. CHOBATA.

Mas. Corpus gracile. Proboscis brevis. Palpi graciles, subascendentes; articulus 3us cylindricus, 2i dimidio non brevior. Antennæ subpectinatæ, corporis dimidio multo longiores. Abdomen alas posticas paullo superans, apice fasciculatum. Pedes sat validi; tibiæ posticæ calcaribus longis. Alæ anticæ latiusculæ, apice subrotundatæ, margine exteriori perparum obliquo.

Male. Body slender. Proboscis short. Palpi slender, slightly ascending; third joint cylindrical, about half the length of the

second. Antennæ slightly pectinated, much more than half the length of the body. Abdomen extending a little beyond the hind wings, tufted at the tip. Legs rather stout; hind tibiæ with long spurs. Fore wings rather broad, somewhat rounded at the tips, very slightly oblique along the exterior border.

1. CHOBATA DISCALIS.

Mas. *Alba; caput et thorax ex parte fusca; abdomen pallide testaceum; alæ anticae æneo-fuscae, nigro conspersæ, basi ex parte, striga brevi lata arcuata, lineis duabus undulatis strigae apud angulum interiorem albis, linea submarginali angulosa lineaque marginali interrupta nigris; posticae margine fusciscente.*

Male. White. Head and thorax partly brown. Abdomen pale testaceous. Fore wings æneous-brown, speckled with black, partly white near the base, and with a short broad curved white streak, which extends from the costa outward; two undulating white lines, the first shortened in front by the white streak, the second dilated in front; a white streak by the interior angle, slightly tinged with purple, as is some of the white elsewhere; submarginal line black zigzag; an interrupted black marginal line. Hind wings white, with pale brownish borders. Length of the body 4 lines; of the wings 9 lines.

a. St. Domingo. From Mr. Stevens' collection.

Genus 12. SYNTHIMIA.

Corpus gracile. Frons fasciculata. Proboscis brevis. Palpi porrecti, fasciculum non superantes; articulus 3us minutus, conicus. Antennæ simplices, corporis dimidio paullo longiores. Pedes sat graciles; tibiæ posticæ calcaribus longis. Alæ latiusculæ; anticae apud costam rectæ, apice angulatæ, margine exteriori subobliquo fere recto.

Synthimia, Hübn. Verz. Schmett. 282.

Euclidia, p., Treit.; Boisd.

Metoptria, Guen. Noct. ii. 261.

Body slender. Head tufted in front. Proboscis short. Palpi porrect, not extending beyond the tuft; third joint minute, conical. Antennæ simple, a little more than half the length of the body. Legs rather slender; hind tibiæ with long spurs. Wings somewhat

broad. Fore wings straight in front, angular at the tips, slightly oblique, and almost straight along the exterior border.

1. SYNTHYMIA MONOGRAMMA.

Cinerascens; abdomen *lutescens*; alæ anticæ fascia interiore, maculis discalibus lineaque submarginali albidis; posticæ luteæ, basi margineque fuscis.

Noctua monogramma, Hübn. *Eur. Schmett. Noct.* pl. 76, f. 353.
God. Pap. de Fr. v. 92, pl. 51, f. 4, 5.

Synthymia monogramma, Hübn. *Verz. Schmett.* 282, 2764.

Euclidia monogramma, Treit. *Schmett.* v. 389, l. *Meig. Syst. Besch.* iii. 246, 1, pl. 118, f. 7. *Boisd. Ind. Méth.* 172, 1378.

Metoptria monogramma, Guen. *Noct.* ii. 262, 1065.

a, b. Europe. From M. Becker's collection.

c. France. From Dr. Leach's collection.

d. Pyrenees. Presented by M. Pierret.

e. Gibraltar. From Mr. Milne's collection.

f, g. ———? From Mr. Milne's collection.

h—k. ———?

Genus 13. TIMA.

Corpus gracile. Proboscis brevissima. Palpi breves, graciles, porrecti, caput non superantes; articulus 3us conicus, minimus. Antennæ corporis dimidio fere breviores. Abdomen alas posticas vix superans. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ vix latæ, apice angulatæ, margine exteriori sat obliquo. *Mas.* —Antennæ pectinatæ.

Tima, *MSS.*

Body slender. Proboscis very short. Palpi short, slender, porrect, not extending beyond the head; third joint conical, very minute, less than one-fourth of the length of the second. Antennæ hardly half the length of the body. Abdomen hardly extending beyond the hind wings. Legs slender; hind tibiæ with long spurs. Wings hardly broad. Fore wings straight in front, angular at the tips, rather oblique along the exterior border. *Male.*—Antennæ moderately pectinated.

1. TIMA MARGARITA.

Rosea ; abdomen albido-testaceum ; alæ anticæ basi fasciæque marginali postice dilatata luteis, strigis duabus basalibus tribusque variis discalibus albis ; posticæ albido-testaceæ ciliis roseis.

Phalæna margarita, *Drury*, *Ins.* iii. pl. 21, f. 6.

a. North Hindostan. From Mr. James' collection.

b, c. ———? From M. Becker's collection.

Fam. 5. PHALÆNOIDÆ.

Phalænoidi, *Guen. Ann. Soc. Ent. Fr.* x. 217.

Phalænoidæ, *Guen. Noct.* ii. 263.

Noctuo-Phalænides, *Boisd.*

Genus 1. ARCHIEARIS.

Corpus gracile. Caput pilosissimum. Proboscis brevissima. Palpi subobsoleti. Antennæ corporis dimidio longiores. Abdomen alas posticas non superans. Pedes graciles ; tibiæ posticæ calcariibus minimis. Alæ latæ ; anticæ apud costam rectæ, apice subrotundatæ, margine subconvexo et subobliquo. *Mas.*—Antennæ serratæ aut subpectinatæ.

Archiearis, *Hübner. Verz. Schmett.* 279.

Brephos, *Ochs.* ; *Treit.* ; *Boisd.* ; *Steph.* ; *Curt.* ; *Guen. Ann. Soc. Ent. Fr.* x. 219 ; *Noct.* ii. 264.

Body slender. Head very pilose. Proboscis very short. Palpi hardly visible. Antennæ more than half the length of the body. Abdomen not extending beyond the hind wings. Legs slender ; hind tibiæ with very minute spurs. Wings broad. Fore wings straight in front, somewhat rounded at the tips, slightly convex and oblique along the exterior border. *Male.*—Antennæ serrated or slightly pectinated.

1. ARCHIEARIS PARTHENIAS.

Nigro-fusca ; alæ anticæ cinereo conspersæ, ferrugineo tinctæ, plagis duabus anticis albidis ; posticæ vitta antica latissima interrupta fasciæque postica undulato luteis. *Mas.*—Antennæ serratæ.

- , *Deg. Ins.* i. 119, pl. 21. *Engr. Pap. d'Eur.* 577, e, f. h.
- Phalæna-Noctua Parthenias, *Linn. Syst. Nat.* 835, 94; *Faun. Suec.* 1160; *It. Wgoth.* 141, 1.
- Bombyx vidua, *Fabr. Sp. Ins.* ii. 197, 117; *Mant. Ins.* ii. 128, 166; *Ent. Syst.* iii. 1, 468, 190.
- Phalæna-Bombyx Parthenias, *Gmel. ed. Syst. Nat.* i. 5, 2437, 94.
- Noctua Parthenias, *Klém., Beitr.* i. pl. 40. *Wiën. Verz.* 91, 9. *Knoch, Beitr.* ii. pl. 3, f. 8. *Esp. Schmett.* iv. pl. 85, f. 5—8. *Bork. Eur. Schmett.* iv. 51, 18. *Hübner. Eur. Noct.* pl. 74, f. 341, 342. *God. Pap. de Fr.* v. 89, pl. 51, f. 2.
- Noctua Notha, *Haw. Lep. Brit.* 8.
- Archiearis Parthenias, *Hübner. Verz. Schmett.* 280, 2745.
- Brephos Parthenias, *Treit. Schmett.* v. 379, 1. *Meig. Syst. Besch.* iii. 244, 1, pl. 118, f. 4; *Handb.* 189, 111. *Boisd. Ind. Méth.* 173, 1380. *Guen. Noct.* ii. 264, 1066. *Freyer, Ent. Zeit. Stett.* ii. 111.
- Brephos Notha, *Steph. Ill. Brit. Ent. Haust.* iii. 137.
- a—r. England. From Mr. Stephens' collection.
- s—w. England.
- x, y. Europe. From M. Becker's collection.
- z. Orilla, West Canada. From Mr. Bush's collection.

2. ARCHIEARIS NOTHA.

Nigro-fusca; alæ anticæ cinereo conspersæ, fasciis nigris vix conspicuis; posticæ vitta antica dilatata interrupta fasciaque postica undulata luteis. Mas.—Antennæ pectinatæ.

- , *Engr. Pap. d'Eur.* 577, c, d, g, k.
- Noctua Parthenias, *Esp. Schmett.* iv. pl. 85, f. 4. *God. Pap. de Fr.* v. pl. 51, f. 1,
- Phalæna Parthenias, *Donov. Brit. Ins.* vii. pl. 246, f. 1, 2.
- Bombyx Parthenias, *Haw. Lep. Brit.* 98.
- Noctua notha, *Hübner. Eur. Schmett. Noct.* pl. 74, f. 343, 344.
- Archiearis notha, *Hübner. Verz. Schmett.* 280, 2746.
- Brephos notha, *Treit. Schmett.* v. 383, 2. *Meig. Syst. Besch.* iii. 244, 2, pl. 118, f. 5. *Boisd. Ind. Méth.* 173, 1379. *Guen. Noct.* ii. 265, 1067.
- Brephos Parthenias, *Steph. Ill. Brit. Ent. Haust.* iii. 136. *Curt. Brit. Ent.* pl. 121.

a—p. England. From Mr. Stephens' collection.

q—v. England.

u—x. Europe. From M. Becker's collection.

3. ARCHIEARIS PUELLA.

Nigro-cinerea; alæ anticæ macula costali subapicali pallidiorè, lineis undulatis nigris; posticæ luteæ, margine, dimidio postico interrupto maculaque discali nigricantibus. Mas.—Antennæ pectinatæ.

—————, *Engr. Pap. d' Eur.* 370, a—d.

Noctua puella, Lang. Verz. 1101. *Esp. Schmett.* iv. pl. 106, f. 2, 3.
Bork. Eur. Schmett. iv. 55, 19.

Noctua spuria, Hübn. Eur. Schmett. Noct. pl. 74, f. 345.

Noctua Cœlebs, Hübn. Beitr. pl. 3, Q.

Archiearis spuria, Hübn. Verz. Schmett. 280, 2747.

Noctua Parthenias, var. God. Pap. de Fr. v. pl. 51, f. 3.

Brephos puella, Treit. Schmett. v. 385, 3. *Steph. Ill. Brit. Ent.*

Haust. iii. 137. *Meig. Syst. Besch.* iii. 245, 3, pl. 118, f. 6.

Boisd. Ind. Méth. 173, 1381. *Guen. Noct.* ii. 265, 1068.

a—e. Europe. From M. Becker's collection.

f. France.

Div. 2. QUADRIFIDÆ.

See page 2.

Statura sæpissime magna. Corpus sæpe gracile, nonnunquam robustum. Palpi optime determinati; articulus 3us sæpissime longissimus, nonnunquam spatulatus. Thorax sæpe minus pilosus. Alæ latæ; posticæ amplæ; vena 1a inferior sæpissime fortis, apud areolæ apicem inserta.

Species very generally of large size. Body often slender, sometimes stout. Palpi much developed; third joint most often very long, sometimes spatulate. Thorax often but slightly pilose. Wings broad. Hind wings ample; first inferior vein very generally as much developed as the others, inserted at the tip of the areolet.

A. Vena 1a inferior variabilis. Alæ decumbentes.

A. Alæ sericeæ, concolores aut ocellatæ. Vena 1a inferior sequentibus semper æqualis. - - - Tribe 1. SERICEÆ.

B. Statura parva. Alæ angulosæ, denticulatæ aut metallicæ; posticæ discolores; vena 1a inferior sequentibus sæpissime debilior. - - - - - Tribe 2. VARIEGATÆ.

C. Abdomen depressum. Alæ nebulosæ; posticæ discolores; vena 1a inferior semper debilior et remotior.

Tribe 3. INTRUSÆ.

B. Alæ planæ aut extensæ. Vena 1a inferior sequentibus æqualis, non remota.

A. Statura mediocris. Alæ concolores, lituris non diversis, aut subtus valde notatæ. - - - Tribe 4. EXTENSÆ.

B. Statura magna aut mediocris. Alæ posticæ discolores et bicolores. - - - Tribe 5. LIMBATÆ.

C. Statura magna. Palporum articulus 3us longus, linearis. Alæ latæ, concolores, lineis non diversis. Tribe 6. PATULÆ.

D. Palporum articulus 3us mediocriter longus, non spatulatus. Abdomen læve. - - - Tribe 7. SERPENTINÆ.

E. Noctuæ pyraliformes. Palpi longissimi. Pedes longi. Alæ tenues, concolores, subtus bene notatæ.

Tribe 8. PSEUDO-DELTOIDÆ.

Tribe 1. SERICEÆ.

Statura parva aut mediocris. Fasciculus frontalis non prominens. Palpi breves, arcuati, ad frontem applicati, articulis non bene determinatis. Antennæ vix pubescentes. Alæ sericeæ, nitentes, integræ, concolores; anticæ lineis distinctis; posticæ maculis ocellatis ornatae, aut maculis, vel lineis vel squamarum plagis micantibus notatæ; vena 1a inferior sequentibus æqualis, paullo supra inserta; venæ costalis et subcostalis basi connexæ, prope ad alarum insertionem ramosæ.

Quadrifidæ Sericeæ, *Guen. Noct. ii. 273.*

Size small or moderate. Tuft of the front not prominent. Palpi short, curved, applied to the front; joints somewhat indistinct. Antennæ hardly pubescent. Wings silky, shining, entire, alike in colour. Fore wings with distinct lines. Hind wings adorned with ocellated spots, or marked with metallic and more or less shining spots, lines, or patches of scales; first inferior vein as stout as the others, inserted a little in front; costal and subcostal veins united at the base, ramified not far from the root of the wing.

A. Corpus gracile. Alæ latæ, semper fere angulosæ, non ocellatæ, lineis determinatis. - - - Fam. 1. PALINDIDÆ, *Guen.*

B. Corpus sat robustum. Alæ rotundatæ, crassæ, maculis ocellatis ornatae. - - - Fam. 2. DYOPSIDÆ, *Guen.*

Fam. 1. PALINDIDÆ.

Corpus gracile. Alæ latæ, sericeæ; anticæ lineis aut fasciis bene determinatis, maculis metallicis, apice acutæ; posticæ sæpissime angulatæ.

Palindidæ, *Guen. Noct.* ii. 274.

Body slender. Wings broad, shining, with distinct bands or transverse lines, and generally with metallic marks. Fore wings acute at the tips. Hind wings most often angular or with a short tail.

- | | | | | |
|----------------------------------|---|---|---|---------------------------|
| A. Palpi articulis distinctis. | - | - | - | 1. PALINDIA, <i>Guen.</i> |
| B. Palpi articulis indistinctis. | - | - | - | 2. HOMODES, <i>Guen.</i> |

Genus 1. PALINDIA.

Corpus sat gracile. Proboscis mediocriter longa. Palpi ascendentes, subarcuati, vix longi; articulus 3us cylindricus, 2i dimidio longior. Antennæ simplices, corporis dimidio multo longiores. Abdomen alas posticas non superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ latæ; anticæ apud eostam subrectæ, apice subrotundatæ, margine exteriori subconvexo, mediocriter obliquo; posticæ apud marginis exterioris medium subangulatæ.

Eulepidotis et Phrygionis, *Hübner. Verz. Schmett.* 291, 307.

Palindia, *Guen. Noct.* ii. 274.

Body rather slender. Proboscis moderately long. Palpi moderately long, slightly curved, almost vertical; third joint cylindrical, more than half the length of the second. Antennæ simple, much more than half the length of the body. Abdomen not extending beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings broad. Fore wings straight in front, slightly rounded at the tips, slightly convex and moderately oblique along the exterior border. Hind wings slightly angular in the middle of the exterior border.

South America.

- A. Alæ virides. - - - - - Ilyrias, *Cram.*
 B. Alæ non virides.
 A. Alæ plus minusve albæ.
 a. Alæ anticæ nigro-fuscæ, basi albæ. - Vincentiata, *Stoll.*
 B. Alæ anticæ dimidio apicali nigricante.
 a. Alæ anticæ macula costali nigra. - hemileuca, *Guen.*
 b. Alæ anticæ macula nulla nigra. caudata, *Herr.-Schæff.*
 c. Alæ anticæ dimidio apicali non nigricante.
 a. Alæ anticæ fuscæ, fasciis albis. - striataria, *Cram.*
 b. Alæ anticæ albæ, fasciis aut maculis obscuris.
 i. Alæ posticæ fuscæ, basi albæ. - Julianata, *Stoll.*
 ii. Alæ posticæ albæ.
 * Alæ anticæ fasciatæ.
 † Alæ anticæ ciliis totis obscuris.
 ‡ Alæ posticæ macula apicali fusca.
 Dominicanata, *Guen.*
 ‡ Alæ posticæ macula nulla apicali fusca.
 persimilis, *Guen.*
 †† Alæ anticæ ciliis albis. - rectimargo, *Guen.*
 ** Alæ anticæ lineis transversis.
 † Alæ anticæ maculis magnis transversis.
 alabastraria, *Hübner.*
 †† Alæ anticæ maculis vix ullis costalibus.
 ‡ Alæ anticæ lineis non punctatis.
 detracta, *Walk.*
 ‡ Alæ anticæ lineis punctatis.
 punctangulata, *Walk.*
 B. Alæ stramineæ aut luteæ.
 a. Alæ anticæ cyaneo non fasciatæ. - juncida, *Guen.*
 B. Alæ anticæ cyaneo fasciatæ. - - - Corinna, *Cram.*
 C. Alæ fuscæ.
 a. Alæ posticæ angulatæ.
 a. Alæ anticæ fasciis fuscis. - - - Mabis, *Guen.*
 b. Alæ anticæ fasciis fulvis. - - - thecloides, *Walk.*
 B. Alæ posticæ non angulatæ. - - - perlata, *Guen.*

1. PALINDIA HEMILEUCA.

Alba; caput, palpi, thorax anticus et abdomen apice fusca; alae extus fuscae, subfasciatae, subiridescentes; anticae macula costali fusca; posticae macula ocellari apud angulum.

Palindia hemileuca, Guen. Noct. ii. 275, 1069.

a. Brazil. From Mr. Stevens' collection.

b. South America. From Mr. Warwick's collection.

2. PALINDIA VINCENTIATA.

Alba; caput rufum; alae nigro-fuscae; anticae basi alba, fasciis duabus obliquis undulatis nigris; posticae basi testacea, maculis duabus discalibus unaque marginali nigris.

Phalæna Vincentiata, Stoll, Cram. Pap. Exot. v. 39, pl. 8, f. 3.

Palindia Vincentiata, Guen. Noct. ii. 275, 1070.

Surinam.

3. PALINDIA ALABASTRARIA.

Var. ? *Alba, subtus lutea; caput, prothorax et abdomen apice lutescentia; alae linea marginali alba; anticae guttis tribus basim versus nigris, maculis tribus costalibus trigonis cervinis nigro marginatis, 2a lineam transversam angulosam emittente, fascia marginali angulata fusca; posticae albo-lutescentes, margine ex parte fusco, macula oblonga marginali pallide cervina fusco punctata.*

Noctua alabastraria, Hübn. Zutr. f. 311, 312.

Eulepidotis alabastraria, Hübn. Verz. Schmett. 291, 2823.

Palindia alabastraria, Guen. Noct. ii. 275, 1071.

a. Ega. From Mr. Bates' collection.

b. Brazil. From Mr. Argent's collection.

4. PALINDIA DOMINICATA.

Alba; caput et thorax anticus fusca; abdomen apice aut omnino luteum; alae anticae fascia obliqua trienteque apicali fuscis plagam trigonam albam includentibus, fascia exteriori fasciisque marginali obscurioribus, illa ferrugineo interlineata; posticae luteae, apice fuscae, margine interiore albo, plaga crocea, oculo atro lineaque alba posticis.

Palindia Dominicata, *Guen. Noct.* ii. 276, 1072.

a, b. Brazil. From Mr. Argent's collection.

c. Parà. From Mr. Stevens' collection.

d. Parà. Presented by J. P. G. Smith, Esq.

5. *PALINDIA PERSIMILIS.*

P. dominicatæ simillima; *alæ anticæ alba magis repanda, fascia obliqua angustiore*; *posticæ apice non fuscæ.*

Palindia persimilis, *Guen. Noct.* ii. 276, 1073.

Brazil.

6. *PALINDIA RECTIMARGO.*

Alba; *caput et prothorax pallidissime fusca*; *abdomen apice lutescens*; *alæ anticæ fascia et triente apicali pallide fuscis nigro marginatis postice connexis, lineis duabus (una exterior altera marginali) albidis, linea intermedia glaucescente*; *posticæ subcaudatæ, apud marginem luteæ, maculis duabus (una apicali altera postica) fuscis, macula postica nigro pupillata albo unilineata, punctis contiguis albis.*

Palindia rectimargo, *Guen. Noct.* ii. 276, 1074.

Monte Video.

a, b. Venezuela. From Mr. Dyson's collection.

c. ———?

7. *PALINDIA DETRACTA.*

Fœm. *Alba*; *caput et prothorax pallide fusca*; *abdomen apicem versus lutescens*; *alæ apud marginem exteriorem glaucescentes, ciliis pallide fuscis*; *alæ anticæ guttis costalibus nigris, fasciis duabus angustis testaceis fusco marginatis postice approximatis apud costam dilatatis, linea exterior cinerea undulata indistincta*; *posticæ subluteæ, linea guttaque postica marginalibus nigris, vitta alba lineolas fuscas maculamque e punctis nigris includente.*

Female. White. Head and prothorax pale brown. Abdomen slightly luteous towards the tip. Wings with a glaucous tinge along the exterior border; ciliæ pale brown. Fore wings with black dots along the costa, and with two slender testaceous brown-bordered bands, which are approximate hindward and are dilated on the costa; an indistinct undulating gray line between the

second band and the border. Hind wings slightly luteous, with a black marginal line, a black posterior marginal dot, and a white stripe, which includes near the margin an assemblage of black points; the latter are bounded in front and behind by some brown little lines. Length of the body 5—6 lines; of the wings 12—14 lines.

a. Brazil. From Mr. Milne's collection.

8. PALINDIA PUNCTANGULATA.

Mas. *Alba*; caput et prothorax lutea, hic fasciis duabus purpureo-fuscis; abdomen apice subflavescens; alæ ciliis fuscis; anticæ guttis costalibus unaque basali nigris, lineis duabus transversis angulosis subparallelis apud costam dilatatis luteis fusco marginatis, 1a lutea nigro guttata, 2a fusca, lunulis marginalibus fuscis nigro notatis; posticæ linea marginali nigra, lineolis fuscis punctisque nigris posticis.

Male. White. Head and prothorax luteous; the latter with two purplish brown bands. Abdomen slightly tinged with yellow towards the tip. Wings with brown ciliæ. Fore wings with black dots along the costa and with a black dot near the base; two zig-zag transverse nearly parallel lines; first line luteous, with black dots; second brown; both dilated and luteous, and bordered with brown on the costa; a row of brown black-marked marginal lunules. Hind wings with a black line on the exterior border, near the hind part of which there is an assemblage of black points, which are partly bordered by little brown lines. Length of the body 6 lines; of the wings 14 lines.

Valley of the Amazon. In Mr. Saunders' collection.

9. PALINDIA JULIANATA.

Alba; alæ anticæ fascia recta et triente apicali fuscis connexis, macula et lineola costalibus subapicalibus albis; posticæ fuscae, basi albæ, plaga cervina, strigis, linea, macula ocelloque pallide purpurascentibus.

Phalæna Julianata, Stoll, *Cram. Pap. Exot.* v. 40, pl. 8, f. 4.

Phrygonis Julianaria, Hübn. *Verz. Schmett.* 307, 2961.

Palindia Julianata, Guen. *Noct.* ii. 277, 1075.

Surinam.

10. PALINDIA ILYRIAS.

Læte viridis; abdomen apice lutescens; alæ anticæ lineis tribus luteis cyanescente marginatis apud costam dilatatis fuscoque marginatis, costa ciliisque lutescentibus; posticæ costa strigisque apud marginem interiorem luteis, ocello postico guttisque marginalibus argenteis. Mas.—Alæ anticæ costa lutescente, lunulis apud marginem exteriorem fuscis.

Phalæna Ilyrias, *Cram. Pap. Exot.* i. 15, pl. 10, f. E.

Phalæna Ilyraria, *Fabr. Ent. Syst.* iii. 2, 138, 33.

Eulepidotis Illyriaria, *Hübner. Verz. Schmett.* 291, 2821.

Palindia Ilyrias, *Guen. Noct.* ii. 278, 1080.

Surinam. Guiana.

a. Villa Nova. From Mr. Bates' collection.

b—d. Pará. From Mr. Wallace's collection.

e. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

Var. *Alæ anticæ macula aut plaga purpureo-fusca.*

f. Brazil. Presented by E. Doubleday, Esq.

g. Pará. Presented by J. P. G. Smith, Esq.

h. Brazil. From Mr. Mornay's collection.

11. PALINDIA JUNCIDA.

Straminea; caput, palpi et thorax anticus cervina; alæ anticæ fasciis duabus subobliquis cervinis, 2a extus albido marginata, triente apicali costa excepta æneo-fusca; posticæ fusco marginatæ, linea maculaque marginalibus albis, ocello apud angulum pallide purpureo.

Palindia juncida, *Guen. Noct.* ii. 277, 1076.

Colombia.

a. Brazil. From Mr. Argent's collection.

12. PALINDIA CORINNA.

Lutea; alæ anticæ fasciis quatuor cyaneis et fuscis; posticæ fasciis duabus incompletis cyaneis fuscisque, guttis posticis argenteis nigrisque. Var.—Alæ anticæ fascia latissima purpurascens.

Phalæna (Noctua) Corinna, *Cram. Pap. Exot.* i. 47, pl. 29, f. H.

Phrygionis Corinnaria, *Hübner. Verz. Schmett.* 307, 2960.

Palindia Corinna, *Guen. Noct.* ii. 279, 1081.

Cayenne. Parà. Surinam.

a. Parà. From Mr. Bates' collection.

b. ———?

13. PALINDIA STRIATARIA.

Cervino-fusca ; alæ anticæ fuscis tribus albis nigro marginatis, 2a 3aque posticæ approximatis ; posticæ fascia obliqua nigro marginata, lineis submarginalibus albis.

Phalæna striataria, *Cram. Pap. Exot.* iv. 125, pl. 355, f. F.

Palindia striatia, *Guen. Noct.* ii. 278, 1078.

Surinam.

14. PALINDIA CAUDATA.

Alba ; alæ anticæ costa fasciæque lata nigro marginata obscure fuscis, dimidio apicali purpureo-fusco ; posticæ fusca, basi liturisque marginalibus albis, fascia lata purpurascens, guttis discalibus et marginalibus nigris.

Palindia caudata, *Herr.-Schæff. Exot. Schmett.* f. 136.

Surinam.

a. Ega. From Mr. Bates' collection.

15. PALINDIA MABIS.

Cinereo-fusca ; alæ anticæ guttis costalibus subapicalibus lineisque marginalibus albis, lineis quatuor transversis fuscis, 1a et 2a obliquis parallelis interioribus, 3a exteriore abbreviata, 4a undulata testaceo marginata, reniformi angusta fusco marginata ; posticæ fascia angulata nigro marginata, lineis duabus marginalibus ciliisque albis, macula cyanea guttis tribus atris lineolaque alba posticis.

Palindia mabis, *Guen. Noct.* ii. 277, 1077.

a, b. Ega. From Mr. Bates' collection.

c. Venezuela. From Mr. Dyson's collection.

16. PALINDIA THECLOIDES.

Fœm. Murina, iridescens, subtus alba; palpi albido fasciati; thorax fasciis tribus anticis testaceis unaque albida; alæ anticæ fasciis duabus fulvis fusco marginatis; posticæ caudatæ, macula magna purpurea nigro conspersa, lineolis posticis fuscis, striga alba maculaque nigra submarginalibus.

Female. Mouse-colour, with an iridescent tinge, white beneath. Palpi with whitish bands. Prothorax with three testaceous bands in front, and behind them a slight whitish band. Fore wings with two brown-bordered tawny bands, which are slightly dilated in front; costa towards the tip yellowish, with brown dots. Hind wings with a large purple black-speckled spot, which joins several very fine little brown lines; the latter are contiguous to a white mark, which is accompanied by a black spot adjoining the short tail. Length of the body 5 lines; of the wings 12 lines.

a. Honduras. From Mr. Dyson's collection.

17. PALINDIA PERLATA.

Cinereo-fusca; palpi basi albi; abdomen macula basali argentea; alæ rotundatæ, non angulatæ; anticæ linea punctoque cyaneo basalibus, fascia media guttis marginalibus maculæque costali apicali fulvis, linea marginali argentea; posticæ macula marginali alba, ciliis ex parte flavis, litura vaga violacea lineolisque albis et nigris.

Palindia perlata, Guen. Noct. ii. 279, 1082.

Cayenne.

Country unknown.

18. PALINDIA SUPERIOR.

Schistaceo-fusca; alæ anticæ lineis tribus transversis, 1a basali nigricante, 2a 3aue obliquis cervino-fuscis, lineola postica chalybea; posticæ angulatæ, striga cervina maculam chalybeam nigro conspersam lineolamque albam includente.

Palindia superior, Guen. Noct. ii. 278, 1079.

Genus 2. HOMODES.

Corpus sat gracile. Proboscis mediocriter longa. Palpi validi, pilosi, arcuati, ascendentes, arcte applicati; articuli valde indistincti; 3us minimus. Antennæ validæ, subciliatæ, corporis dimidio breviores. Abdomen alas posticas triente superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ sat angustæ; anticæ costa apicem versus arcuata, apice vix angulatæ, margine exteriori sat obliquo vix convexo.

Homodes, *Guen. Noct.* ii. 280.

Body rather slender. Proboscis moderately long. Palpi stout, pilose, curved, ascending, closely applied to the head; articulation of the joints very indistinct; third joint very minute. Antennæ stout, minutely ciliated, not half the length of the body. Abdomen extending for one-third of its length beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings rather narrow. Fore wings somewhat rounded towards the tips, which are hardly angular; exterior border moderately oblique, hardly convex.

1. HOMODES CROCEA.

Ochracea; abdomen ferruginosum; alæ anticæ guttis plurimis fasciæque tenui subcupreis albido lineatis, linea transversa exteriori rufescente lineolisque submarginalibus nigris; anticæ guttis tribus discalibus cupreis.

Homodes crocea, *Guen. Noct.* ii. 280, 1083.

Java.

2. HOMODES VIVIDA.

Læte ochracea; palpi fusci; alæ anticæ lineis duabus cinereis, 2a lineaque rufa approximatis, serie intermedia e punctis nigris cupreo notatis, lineolis marginalibus nigris duplicatis.

Homodes vivida, *Guen. Noct.* ii. 280, 1084.

Homodes crocea, *var.?*

Bombay.

Fam. 2. DYOPSIDÆ.

Statura major. Corpus robustum. Caput parvum. Palpi ascendentes. Alæ obscuræ, lineis aut fasciis indistinctis, maculis ocellaribus.

Dyopsidæ, *Guen. Noct.* ii. 281.

Size somewhat large. Body robust. Head small. Palpi ascending. Wings dark, with indistinct bands or transverse lines; each with a posterior ocellus.

A. Alæ anticæ ocello apud marginem anteriorem. 1. DYOMYX, *Guen.*

B. Alæ anticæ ocello nulla apud marginem anteriorem.

2. DYOPS, *Guen.*

Genus 1. DYOMYX.

Corpus sat robustum. Proboscis mediocriter longa. Palpi longi, ascendentes; articulus 3us cylindricus, gracilis, 2o non brevior. Antennæ simplices, corporis dimidio longiores. Abdomen alas posticas non superans. Pedes sat validi; tibiæ posticæ calcareibus longis. Alæ latæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori subobliquo subconvexo.

Platyja, p., *Hübner. Verz. Schmett.* 268.

Dyomyx, *Guen. Noct.* ii. 281.

Body rather robust. Proboscis moderately long. Palpi long, almost vertical; third joint cylindrical, slender, as long as the second. Antennæ simple, more than half the length of the body. Abdomen not extending beyond the hind wings. Legs rather stout; hind tibiæ with long spurs. Wings broad. Fore wings straight in front, angular at the tips, slightly oblique and slightly convex along the exterior border.

1. DYOMYX CIMOLIA.

Fusca; alæ anticæ rufescente variæ purpurascente tinctæ, lineis duabus medianis undulatis flexis remotis subparallelis strigatæ recta obliqua obscurioribus, macula postica alba, reniformi maxima annulari antice aperta, macula ocellari nigra ochraceo marginata albo pupillata, striga plumbea punctisque flavescens obscurioribus; posticæ linea unica valde arcuata punctisque tribus nigris.

Dyomyx Cimolia, *Guen. Noct.* ii. 282, 1085.

Brazil?

2. DYOMYX ANCEA.

Ferruginea ; alæ anticæ nigro-purpureæ, fasciis nigris, guttis costalibus subapicalibus flavis, margine exteriori maculaque basali interiore luteis, ocello postico luteo pupilla alba ; posticæ fuscæ margine luteo.

Phalæna-Noctua Ancea, *Cram. Pap. Exot.* iv. 72, pl. 324, f. G.

Platyja Ancea, *Hübner. Verz. Schmett.* 268, 2626.

Dyomyx Ancea, *Guen. Noct.* ii. 282, 1086.

Surinam.

3. DYOMYX MEGALOPS.

Var.? *Obscure fusca ; alæ sericeæ, purpurascente tinctæ ; anticæ lineis quatuor indistinctis transversis angulosis obscurioribus, ocello apud angulum anteriorem atro albo-pupillata macula cervino marginato ; posticæ lineis duabus transversis obscurioribus, gutta postica marginali atra.*

Dyomyx megalops, *Guen. Noct.* ii. 282, 1087.

Parà.

a. Venezuela. From Mr. Dyson's collection.

Genus 2. DYOPS.

Corpus robustum. Proboscis sat longa. Palpi validi, pilosi, subascendentes ; articulus 3us cylindricus, 2i dimidio brevior. Antennæ simplices, corporis dimidio breviores. Abdomen alas posticas superans. Pedes longi, validi ; tibiæ posticæ calcaribus quatuor longis. Alæ longiusculæ, vix latæ ; anticæ apud costam rectæ, apice rotundatæ, margine exteriori subconvexo valde obliquo.

Dyops, *Guen. Noct.* ii. 283.

Body stout. Proboscis moderately long. Palpi stout, pilose, slightly ascending ; third joint cylindrical, rounded at the tip, less than half the length of the second. Antennæ simple, a little less than half the length of the body. Abdomen extending somewhat beyond the hind wings. Legs long, stout ; hind tibiæ with four long spurs. Wings rather long, moderately broad. Fore wings straight in front, rounded at the tips, slightly convex and very oblique along the exterior border.

1. DYOPS OCELLATA.

Fœm.? *Fusca*; *alæ fusco-cervinæ*; *anticæ ex maxima parte nigro-fusca*, *fasciis cyaneis*, *marginē exteriorē pallidiore*; *posticæ lineola pallida*, *maculis duabus posticis atris*, *una albo pupillata*. Mas.?—*Cinereo-fusca*; *alæ anticæ fasciis paucis variis cyaneis et pallide cinereis*, *linea marginali lutea*, *macula marginali nigra*; *posticæ linea margineque testaceis*, *maculis marginalibus nigris*.

Phalæna ocellata, *Cram. Pap. Exot.* iii. 151, pl. 276, f. D, E.

Dyops ocellata, *Guen. Noct.* ii. 283, 1088.

Brazil. Surinam.

2. DYOPS OCULIGERA.

Testaceo-cinerea; *alæ anticæ linea flexa denticulato lunulata*, *umbra mediana lineaque extrabasilari obscurioribus*, *linea submarginali liturisque albis contiguis*; *anticæ maculis duabus costalibus trigonis albis*, *ocello intermedio nigro-albo pupillato antice flavescente lineolato*, *reniformi vaga nigricante*.

Dyops oculigera, *Guen. Noct.* ii. 284, 1089.

Cayenne.

3. DYOPS HATUEY.

Cervino-fusca; *alæ anticæ lineis variis transversis undulatis duplicatis fuscis*, *plaga fusca cyaneo conspersa strigaeque rufescente apud angulum interiorem*; *posticæ pallide cervinæ*, *marginē latissimo fusco fasciam cervinam includente*, *macula apud angulum interiorem atra cyaneo strigata*, *antice cervino bimarginata postice rufescente marginata*.

Noctua Hatuey, *Poey, Cent. Lep. Cuba*.

Cuba.

a. St. Domingo.

b, c. St. Domingo. From Mr. Tweedie's collection.

3. DYOPS CONFLIGENS.

Mas. *Fuscescente-cervina* ; *alæ anticæ apud marginem anteriorem purpurascente tinctæ, maculis triplici serie subcostalibus fuscis, guttis submarginalibus nigricantibus, lineis nonnullis transversis fuscis indistinctis undulatis duplicatis, macula apud angulum anteriorem chalybea* ; *posticæ pallide cervinæ fuscescente nebulosæ, margine latissimo fusco e fascia cervina interrupto, plaga chalybea maculam atram lineolam cervinam strigaeque duas albas includente.*

Dyops Hatuey? *Guen. Noct.* ii. 284, 1090.

Male. Brownish fawn-colour. Abdomen a little paler than the thorax. Fore wings with a slight purplish tinge along the exterior border, with three rows of brown spots along the costa, and with blackish submarginal dots; several indistinct undulating double transverse brown lines; an indistinct chalybeous spot by the interior angle. Hind wings pale fawn-colour, slightly clouded with brown, and with a very broad brown border, which is divided by a fawn-coloured band and a chalybeous patch; the latter includes a deep black spot with two white streaks and a fawn-coloured fore border. Length of the body $10\frac{1}{2}$ — $12\frac{1}{2}$ lines; of the wings 23—25 lines.

This species is very nearly allied to *D. Hatuey*, from which it may be distinguished by not having the red mark at the interior angle of the fore wings, and by some other slight characters.

a, b. Honduras. From Mr. Dyson's collection.

c. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

Tribe 2. VARIEGATÆ.

Statura parva aut mediocris. Proboscis longa aut mediocris. Palpi bene determinata, sæpe crassi; articulus 3us linearis. Alæ anticæ metallicæ, aut sericeo nitentes, aut margine interno angulato vel dentato; posticæ unicolores, aut pallidæ margine nigro.

Variegatæ, Guen. Noct. ii. 286.

Body small, or of moderate size. Proboscis long, or of middling length. Palpi well-developed, often thick; third joint linear. Fore wings metallic, or with silky lustre, or with the interior border angular or denticulate. Hind wings of one colour; occasionally pale or yellow, with a dark border.

- A. Abdomen cristatum aut hamulis apicalibus divergentibus. Alæ anticæ angulatæ aut arcuatæ, lineis aut maculis inordine dispositis.
- A. Antennæ simplices. Abdomen cristatum. Alæ posticæ incisæ, dentatæ, aut polygonæ. - Fam. 1. ERIOPIDÆ, *Guen.*
- B. Antennæ *maris* usque ad medium ciliatæ. Abdomen hamulis duabus apicalibus divergentibus. Alæ posticæ vena la inferiore valde determinata - Fam. 2. EURHIPIDÆ, *Guen.*
- C. Abdomen subcristatum. Alæ anticæ nitentes, vix arcuatæ; posticæ trifidæ. - - - Fam. 3. PLACODIDÆ, *Guen.*
- B. Abdomen tumidum, conicum. Alæ anticæ sæpissime apud marginem internum villosa-dentatæ.
- A. Palpi graciles, ascendentes. Alæ anticæ sæpe plus minusve auratæ aut argenteæ. - - Fam. 4. PLUSIDÆ, *Boisd.*
- B. Palpi incrassati. Alæ anticæ nunquam metallicæ.
Fam. 5. CALPIDÆ, *Guen.*
- C. Antennæ longæ, *maris* usque ad medium pectinatæ. Alæ sericeæ, non metallicæ. - Fam. 6. HEMICERIDÆ, *Guen.*
- C. Corpus robustum. Palpi recti, rostrum fingentes. Abdomen conicum, zonatum. Alæ integræ, crassæ.
Fam. 7. HYBLÆIDÆ, *Guen.*
- D. Abdomen *maris* depressum. Alæ anticæ angulatæ, macula orbiculari punctiformi. - Fam. 8. GONOPTERIDÆ, *Guen.*

Fam. 1. ERIOPIDÆ.

Frontis fasciculus villosa-hirsutus. Proboscis brevis, gracilis. Palpi vix arcuati, sæpe villosi. Antennæ graciles, mediocres, *maris* pubescentes. Thorax cristatus, villosa-hirsutus. Prothorax brevis. Abdomen obconicum, cristatum. Alæ discolores; anticæ sæpe angulatæ, lineis distinctis; posticæ incisæ, denticulatæ aut polygonæ, sat latæ, lituris nullis.

Eriopidæ, *Guen. Noct. ii. 288.*

Tuft of the front villose-hirsute. Proboscis short, slender. Palpi hardly curved, often villose. Antennæ slender, of moderate length, pubescent in the male. Thorax crested, villose-hirsute. Abdomen crested, obconical. Fore wings unlike the hind wings in colour, often angular, with distinct lines. Hind wings without markings, moderately broad, notched, denticulate, or polygonal.

A. Palporum articulus 3us minimus.

A. Abdomen alas posticas vix superans. - 2. COSMODES, *Guen.*B. Abdomen alas posticas sat superans. - 1. EMARGINEA, *Guen.*

B. Palporum articulus 3us 2i dimidio longior.

4. CALLOPISTRIA, *Guen.*

C. Palporum articulus 3us 2o non brevior.

A. Alæ vix latæ. - - - - 3. LINEOPALPA, *Guen.*B. Alæ latæ. - - - - 5. COXINA, *Guen.*

The affinities between these five genera are hardly sufficient to include them in one family.

Genus 1. EMARGINEA.

Mas. Corpus sat robustum. Fasciculus frontis squamosus, lævis, rotundatus, cristatus. Proboscis brevis, robusta. Palpi brevissimi, graciles, cylindrici, non villosi, caput non superantes; articulus 3us brevissimus. Antennæ graciles, apices versus pubescentes, corporis dimidio paullo longiores; articulus 1us squamosus, dilatatus. Thorax brevis, squamosus, hirsutus, tegulis angustis. Abdomen cristatum, supra squamosum, lateribus villosis, abdomen dimidio superans. Pedes brevissimi, squamosi; tarsi breves. Alæ breves, vix latæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore vix obliquo.

Emarginea, *Guen. Noct. ii.* 288.

Male. Body rather stout. Tuft of the front squamose, smooth, rounded, crested. Proboscis short, stout. Palpi slender, cylindrical, very short, not villose, not extending beyond the head; third joint very short. Antennæ slender, pubescent towards the tips, a little more than half the length of the body; first joint squamose, dilated. Thorax short, squamose, hirsute, with narrow lappets. Abdomen crested, squamose above, extending for half its length beyond the hind wings; sides villose. Legs squamose, very short; hind tibiæ with slender spurs; tarsi short. Wings short, rather narrow. Fore wings straight in front, slightly rounded at the tips, hardly oblique along the exterior border.

1. EMARGINEA GRAMMOPHORA.

Alba; thorax niger; abdomen supra nigrum; alæ anticæ plaga maxima exteriore lituram costalem albam includente strigisque duabus basalibus atris, basi, angulo interiore margineque exteriore apud apicem flavo-ochraceis; posticæ margine cinerascente.

Emarginea grammophora, Guen. *Noct.* ii. 289, 1091.

Monte Video.

Genus 2. COSMODES.

Corpus sat gracile. Proboscis brevis. Palpi porrecti, caput vix superantes; articulus 3us minimus. Antennæ corporis dimidio vix longiores. Abdomen alas posticas vix superans. Pedes sat graciles; tibiæ posticæ calcaribus quatuor longis. Alæ latiusculæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore mediocriter obliquo, apud medium subangulato. *Mas.* — Antennæ vix ciliatæ.

Cosmodes, Guen. *Noct.* ii. 289.

Body rather slender. Proboscis short. Palpi porrect, extending very little beyond the head; third joint very minute, not more than one-sixth of the length of the second. Antennæ hardly more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs rather slender; hind tibiæ with four long spurs. Wings rather broad. Fore wings straight in front, somewhat rounded at the tips, moderately oblique along the exterior border, which is slightly angular in the middle; first, second and third inferior veins approximate; fourth moderately remote. *Male.* — Antennæ very minutely ciliated.

1. COSMODES ELEGANS.

Ferruginosa; abdomen cinereum, cristis ferrugineis; alæ anticæ vitta brevi arcuata maculisque tribus trigonis discalibus viridibus argenteo marginatis, fascia testacea lineaque alba exterioribus abbreviatis conjunctis; posticæ cinereæ, margine fuscescente.

Phalæna elegans, *Donov. Epit. Ins. New Holl.*

Pusia? elegans, *Boisd. Voy. de l'Astrolabe*, Pt. 1, *Lép.* 242.

Cosmodes elegans, Guen. *Noct.* ii. 290, 1092.

- a, b.* Moreton Bay. Presented by — Gibbons, Esq.
c. Sydney. From Mr. Lambert's collection.
d. Sydney. Presented by E. Doubleday, Esq.
e. Australia. Presented by the Entomological Club.
f—i. Australia. From Mr. Milne's collection.
j—l. New Zealand. Presented by Col. Bolton.
m—o. New Zealand. Presented by Dr. Sinclair.
p. New Zealand. Presented by the Rev. W. Colenso.
q. ——— ?

Genus 3. LINEOPALPA.

Fœm. Corpus sat robustum. Proboscis longiuscula. Palpi porrecti, graciles, longissimi; articulus 3us linearis, 2o non brevior. Antennæ graciles, simplices, corporis dimidio paullo longiores. Abdomen alas posticas paullo superans. Pedes longiusculi, sat graciles; tibiæ posticæ calcaribus longis. Alæ longiusculæ, vix latæ, margine exteriore subdenticulato; anticæ apud costam rectæ, apice marginisque exterioris medio subangulatis.

Lineopalpa, *Guen. Noct.* ii. 290.

Female. Body moderately stout. Proboscis rather long. Palpi porrect, slender, very long; third joint linear, as long as the second. Antennæ simple, slender, rather more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs rather long and slender; hind tibiæ with four long spurs. Wings rather long, hardly broad; exterior border slightly denticulated. Fore wings straight in front, slightly angular at the tips and in the middle of the exterior border, which is slightly oblique; first, second and third inferior veins contiguous; fourth very remote.

1. LINEOPALPA HORSFIELDI.

Cervina; abdomen et alæ posticæ cinerea; alæ anticæ nigro-fusco variæ, lineis fasciisque testaceis his angulatis, aut confluentibus.

Lineopalpa Horsfieldi, *Guen. Noct.* ii. 291, 1093.

Java

Genus 4. CALLOPISTRIA.

Corpus sat gracile. Proboscis mediocriter longa. Palpi porrecti, pilosi, caput sat superantes; articulus 3us lanceolatus, 2i dimidio longior. Antennæ simplices, validæ, corporis dimidio longiores. Thorax hirsutus. Abdomen alas posticas vix superans. Pedes sat validi; antici densissime fasciculati; tibiæ posticæ calcaribus longissimis. Alæ sat latæ; anticæ apud costam subrectæ, apice acutæ, margine exteriori subdenticulato subobliquo.

Eriopus, *Treit.*; *Boisd.*; *Steph.*; *Guen. Ann. Soc. Ent. Fr.* vii. 224; *Noct.* ii. 291.

Callopiustria, *Hübner. Verz. Schmett.* 216.

Hadena, p., *Ochs.*

Body rather slender. Proboscis moderately long. Palpi porrect, pilose, extending some distance beyond the head; third joint lanceolate, more than half the length of the second. Antennæ simple, stout, more than half the length of the body. Thorax hirsute. Abdomen hardly extending beyond the hind wings. Legs moderately stout; fore legs very thickly tufted; hind tibiæ with very long spurs. Wings moderately broad. Fore wings almost straight in front, acute at the tips, slightly denticulated and oblique along the exterior border.

Europe.

1. CALLOPISTRIA PTERIDIS.

Ferruginea, nigro testaceoque varia; abdomen fuscum, segmentorum marginibus posticis testaceis; alæ anticæ fasciis diffusis nigris duabusque purpureis, lituris costalibus et subapicalibus macularumque discalium marginibus albidis; posticæ fuscae, ciliis pallidioribus.

———, *Engr. Pap. d'Eur.* f. 334.

Noctua Pteridis, *Fabr. Ent. Syst.* iii. 2, 90, 269. *Hübner. Eur. Schmett. Noct.* pl. 13, f. 65. *Dup. Hist. Nat. Lép. Fr.* vi.

324, pl. 93, f. 1, 2. *Frey. Beitr.* i. pl. 76; iv. pl. 305.

Noctua lagopus, *Esp. Schmett.* iv. pl. 125, f. 7.

Noctua manicata, *Rossi, Faun. Etr.* 386.

Noctua formosa, *Bork. Eur. Schmett.* iv. 362, 149.

Pyralis formosissimalis, *Hübner. Eur. Schmett. Pyral.* pl. 17, f. 111.

Eriopus Pteridis, *Treit. Schmett.* v. 366, 1. *Meig. Syst. Besch.* iii. 176, pl. 119, f. 3. *Boisd. Ind. Méth.* 129, 1039. *Bruand, Ann. Soc. Ent. Fr.* xi. 37, pl. 4, Pt. 1. *Guen. Noct.* ii. 293, 1096.

Callopietria Pteridis, *Hübner. Verz. Schmett.* 216, 2159.

a—d. Europe. From M. Becker's collection.

e, f. Europe.

2. CALLOPIETRIA LATREILLII.

Fusca, nigro conspersa; abdomen cinerascens, basi fulvo fasciculatum, segmentis pallido marginatis; alæ anticæ lineis transversis undulatis et macularum marginibus albidis, striga discali exteriori rufescente; posticæ pallidissime cinerascens, margine lato obscuriore.

Eriopus Latreillii, *Dup. Suppl.* iv. 327, pl. 123, f. 2. *Meig. Syst. Besch.* iii. 176, 2, pl. 120, f. 2. *Geyer, Schmett.* f. 818—820. *Boisd. Ind. Méth.* 129, 1040. *Guen. Noct.* ii. 296, 1103.

Eriopus quieta, *Treit. Schmett.* iii. 259; *Suppl.* 49.

a. Sicily. From Mr. Melly's collection.

b—e. Europe. From M. Becker's collection.

f. Europe. From Dr. Frivaldsky's collection.

North America.

A. *Alæ anticæ non argenteo variæ.*

A. *Alæ anticæ nigro variæ.* - - - Floridensis, *Guen.*

B. *Alæ anticæ non nigro variæ.* - - - granitosa, *Guen.*

B. *Alæ anticæ litura argentea.* - - - mollissima, *Guen.*

C. *Alæ anticæ maculis plurimis argenteis.* - monetifera, *Guen.*

D. *Alæ anticæ lineis transversis argenteis.* - argenteilinea, *Walk.*

3. CALLOPIETRIA FLORIDENSIS.

Rufo-fusca; abdomen cinerascens; alæ anticæ macula basali, plagis duabus costalibus, lineis transversis margineque exteriori nigricantibus, fasciis variis obliquis albis, margine exteriori subangulato; posticæ cinerascens, margine rufofusco.

Eriopus Floridensis, *Guen. Noct.* ii. 292, 1094.

a. East Florida. Presented by E. Doubleday, Esq.

4. CALLOPISTRIA MOLLISSIMA.

Rufescens; abdomen cinerascens, cristatum; alæ anticæ fasciis variis incompletis albidis, reniformi rotunda lutea argenteo ex parte marginata, litura postica argentea; posticæ cinereæ, ciliis albis.

Eriopus mollissima, *Guen. Noct.* ii. 294, 1098.

a, b. East Florida. Presented by E. Doubleday, Esq.

5. CALLOPISTRIA MONETIFERA.

Testacea; thorax et alæ anticæ cervino varia, hæ maculis plurimis argenteis; posticæ maris albæ, fœm. fuscescentes ciliis albidis.

Eriopus monetifera, *Guen. Noct.* ii. 295, 1099.

a. Nova Scotia. From Lieut. Redman's collection.

b. ———?

6. CALLOPISTRIA ARGENTILINEA.

Mas. Ferruginea; abdomen cinereum; alæ anticæ fasciis nonnullis undulatis, linea submarginali valde angulosa, orbiculari et reniformi pallide rufis, lineis tribus undulatis transversis, reniformis margine ex parte lunulisque marginalibus argenteis, guttis marginalibus nigris, ciliis pallido guttatis; posticæ cinereo-rufæ, strigis ciliaribus pallidis.

Male. Ferruginous. Abdomen cinereous. Fore wings with several undulating pale red bands; submarginal line pale red, very zigzag; orbicular and reniform also pale red; three undulating transverse silvery lines; reniform in part with a silvery border; a row of marginal black dots, with silvery lunules; ciliæ with pale dots. Hind wings cinereous-red; ciliæ with whitish streaks. Length of the body 5 lines; of the wings 12 lines.

a. North America.

7. CALLOPISTRIA GRANITOSA.

Fœm. Rufo-fusca; alæ anticæ fere integræ, vix angulatæ, roseo tinctæ, lituris bene determinatis fusco-ferrugineis, fasciis 1a ad 3am undulatis duplicatis, lineis intermediis albidis nitentibus, submarginali diffusa e denticulis ferrugineo notatis, maculis tribus optime determinatis ferrugineo marginatis, claviformi magna rotundata.

Eriopus granitosa, *Guen. Noct.* ii. 295, 1100.

North America.

South America.

8. CALLOPISTRIA JUVENTINA.

Fuscescens; *alæ flavescentes*; *anticæ fusco irroratæ*, *strigis duabus obliquis, orbiculari et reniformi fuscis, striga tenui subapicali albida.*

Phalæna-Noctua Juventina, *Cram. Pap. Exot.* iv. 245, pl. 400, f. N.

Bombyx lagopus, *Fabr. Ent. Syst.* iii. 435, 88.

Callopietria lagopus, *Hübner. Verz. Schmett.* 216, 2160.

Surinam.

Africa.

9. CALLOPISTRIA ROSEITELUM.

Cinerea; *thorax fusco conspersus*; *alæ anticæ fusco conspersæ, lineis transversis undulatis albidis nigro marginatis, striga rosea lanceolata exteriore, linea submarginali e guttis nigris albo marginatis*; *posticæ cinereæ, ciliis albidis.*

Cinereous. Thorax and fore wings speckled with brown. Fore wings with transverse irregular undulating whitish black-bordered lines; submarginal line formed by a row of black white-bordered dots; exterior margin slightly angular in the middle; orbicular and reniform spots indistinct; a rosy lanceolate streak between the exterior line and the submarginal line. Hind wings cinereous, with whitish ciliæ. Length of the body 5 lines; of the wings 12 lines.

a. Congo. Presented by Sir J. Richardson.

Asia.

A. *Alæ anticæ non virides.*

A. *Alæ posticæ non fusco marginatæ.*

a. *Alæ anticæ linea nulla argentea.*

a. Abdomen albido fasciatum. - - *exotica, Guen.*

b. Abdomen albido non fasciatum.

i. *Alæ anticæ fasciis nullis roseis.* - *repleta, Walk.*

ii. *Alæ anticæ fasciis roseis.* - - *duplicans, Walk.*

B. Alæ anticæ linea submarginali argentea. rivularis, Walk.

B. Alæ posticæ fusco marginatæ. - - Placodoides, Guen.

B. Alæ anticæ virides. - - - - chloriza, Guen.

10. CALLOPISTRIA EXOTICA.

Cervina; thorax fasciis pallidioribus et nigro-fuscis; abdomen cinerascens, albido fasciatum; alæ anticæ lineis transversis undulatis canis et nigro-fuscis, strigis duabus obliquis costalibus lineaque marginali lanceolata albidis, posticæ cinerascens. Var. β .—Alæ anticæ pallidiores. Var. γ .—Alæ anticæ fasciis maculisque subobsoletis.

Eriopus exotica, Guen. Noct. ii. 294, 1097.

Java.

11. CALLOPISTRIA PLACODOIDES.

Fusca; thorax squamosus; abdomen cinerascens; alæ anticæ fasciis undulatis glaucescentibus nigro-fusco marginatis, annulis duobus discalibus oblongis constrictis lineaque transversa exteriore albidis; posticæ canescentes, fusco marginatæ.

Eriopus Placodoides, Guen. Noct. ii. 296, 110, b.

Java.

12. CALLOPISTRIA CHLORIZA.

Viridescens; abdomen pallide cinereum; alæ anticæ maculis nonnullis variis nigris lineolisque cuneatis albis; posticæ albida.

Eriopus chloriza, Guen. Noct. ii. 296, 1102.

Java.

13. CALLOPISTRIA REPLETA.

Fœm. *Cervina*; caput supra nigrum; thorax nigro fasciatus; abdomen cinereum; alæ anticæ basi nigra, linea contigua transversa angulata albida, fasciis duabus albidis nigro interlineatis spatium nigrum includentibus, maculis discalibus longis angustis, orbiculari albido marginata, reniformi albida lineolis duabus fuscis, fascia exteriore nigra diffusa, linea submarginali argentea undulata, strigis tribus submarginalibus albidis, margine exteriore subexcavato subangulato, ciliis nigris; posticæ cinereæ, ciliis testaceis.

Female. Fawn-colour. Head black above. Thorax with an irregular black band. Abdomen cinereous. Fore wings with a transverse angular whitish line near the base, which is black; two whitish bands interlined with black; first angular, interior; second exterior, hardly curved, slightly oblique; intermediate part black, or speckled with black; orbicular and reniform spots long, narrow, converging hindward; orbicular with a whitish border; reniform whitish, with two brown lines; an irregular diffuse black band near the submarginal line, which is silvery, undulating and very slender; three whitish submarginal streaks; the first extending to the costa; the second and third interrupting the submarginal line; exterior border slightly excavated, indistinctly angular in the middle; ciliæ black. Hind wings cinereous, with testaceous ciliæ. Length of the body 6 lines; of the wings 16 lines.

a. North India.

14. CALLOPISTRIA DUPLICANS.

Mas. *Ferruginea; abdomen cinereum; alæ anticæ linea basali transversa angulata albida, fasciis duabus duplicatis pallide roseis, orbiculari minima oblonga obliqua roseo marginata, reniformi alba longa angusta fusco bilineata, strigis quinque lanceolatis submarginalibus albidis, linea submarginali alba undulata; posticæ æneo-cinereæ, ciliis pallidis.*

Male. Much resembling the preceding species. Ferruginous. Abdomen cinereous. Fore wings with a transverse angular whitish line near the base; two double pale rosy bands; first interior, curved; second exterior, slightly undulating; orbicular spot very small, oblong, oblique, with a pale rosy outline; reniform whitish, long, narrow, enclosing two brown lines, approaching the orbicular hindward; five whitish lanceolate submarginal streaks; the two hindmost intersecting the submarginal line, which is white, undulating and slender; exterior border slightly angular in the middle. Hind wings cinereous, with an æneous tinge; ciliæ paler. Length of the body 6 lines; of the wings 14 lines.

a. Hindostan. From Archdeacon Clark's collection.

15. CALLOPISTRIA RIVULARIS.

Fœm. *Ferrugineo-fusca* ; thorax albo conspersus ; abdomen cinereum ; alæ anticæ cupreo tinctæ, linea basali duplicata transversa alba, orbiculari et reniformi oblongis roseo marginatis, linea intermedia brevi transversa alba, linea exteriori transversa duplicata rosea, litura discali strigisque tribus submarginalibus albis, linea submarginali argentea undulata, margine exteriori subangulata ; posticæ cupreæ.

Female. Ferruginous-brown. Thorax speckled with white. Abdomen cinereous. Fore wings with a slight cupreous tinge ; an irregular double transverse white line near the base ; orbicular spot oblong, distinguished, like the reniform, by its pale rosy border ; a short transverse white line between the spots joining near the costa a double or treble slightly undulating pale rosy transverse line ; reniform spot long, narrow, approaching a white mark in the disk ; three submarginal white streaks ; the hindmost intersecting the submarginal line, which is silvery, undulating, and very slender ; exterior border indistinctly angular in the middle. Hind wings cupreous. Length of the body $4\frac{1}{2}$ lines ; of the wings 10 lines.

a. North India. From Mr. James' collection.

Country unknown.

16. CALLOPISTRIA GANGA.

Violaceo-fusca, C. Floridensi affinis ; palpi magis ascendentes ; tibiæ intermediæ rufo nigroque variæ, fascia exteriori magis flexa alteraque externa parallelis.

Eriopus Ganga, Guen. Noct. ii. 293, 1095.

Genus 5. COXINA.

Corpus validum. Proboscis gracilis, mediocris. Palpi longissimi, ascendentes, non obliqui ; articulus 2us ensiformis ; 3us linearis, apice compressus acutus, 2o non brevior. Antennæ simplices, corporis dimidio paullo longiores. Thorax subquadratus, convexus, crassus, cristatus, villososquamosus. Abdomen longum, obconicum, carinatum, cristis quatuor aut quinque, apice productum acutum. Pedes longi, validi ; tibiæ latæ, villososquamosæ, calcaribus

validis. Alæ latæ; anticæ fasciis lineisque variis, apud costam rectæ, apice subangulatæ, margine exteriori vix obliquo.

Coxina, *Guen. Noct. ii. 297.*

Body stout. Proboscis slender, of moderate length. Palpi vertical, very long; second joint ensiform; third linear, compressed and acute at the tip, as long as the second. Antennæ simple, a little more than half the length of the body. Thorax subquadrate, convex, stout, crested, villose-squamose. Abdomen long, obconical, with four or five crests, lengthened and acute at the tip, extending a little beyond the hind wings. Legs long, stout; tibiæ villose-lanuginous; hind tibiæ with stout spurs. Wings broad. Fore wings with various lines and bands, straight in front, slightly angular at the tips; exterior border hardly oblique.

1. COXINA ENSIPALPIS.

Mas. *Fusco-cinerea: alæ anticæ ochraceo variæ, parte basali obscura, lineaque interiore connexis, fascia lata carneo-subpurpurea apud medium dilatata, macula reniformi subpurpureo varia extus nigro lineata, litura parva guttiformi albida reniformem trajiciente, linea submarginali rufescente albida bene determinata; posticæ cinereæ, lineis duabus analibus fractis albis, anteriore strigaeque nigra conjunctis.*

Coxina ensipalpis, *Guen. Noct. ii. 298, 1104.*

Mexico.

2. COXINA MINAX.

C. ensipalpi affinis sed distincta. *Nigro-cinerea, linea interiore subarcuata, fascia sequente albida cinereo conspersa vix carnea lineaque nigricante biarcuata connexis, hæc et submarginali indistincta rufescente nebulosa parallelis, macula reniformi carneo-alba nigro extus lineata puncta duæ flavescens-alba includente.*

Coxina minax, *Guen. Noct. ii. 298, 1105.*

Yucatan.

3. COXINA HADENOIDES.

Mas. *Cinerascens; pedes minus villosi; alæ anticæ ex parte roseo tinctæ, non fasciatæ, nec maculatæ, reniformi obsoleta, lineis mediis dentatis, linea submarginali indistincta; posticæ cinereæ, basi pallidiores, lineis analibus abbreviatis approximatis albis.*

Coxina hadenoides, *Guen. Noct.* ii. 299, 1106.

Mexico.

Fam. 2. EURHIPIDÆ.

Corpus robustum. Caput et thorax arcte conjuncta. Proboscis sæpissime brevis. Palpi ascendentes, approximati; articulus 3us plus minusve longus. Antennæ breviusculæ. Thorax convexus. Prothorax bene determinatus. Abdomen obconicum, fasciculis parvis apicalibus plus minusve divergentibus. Alæ anticæ sæpe angulatæ, sæpissime denticulatæ. *Mas.*—Antennæ dimidio basali robusto ciliato.

Eurhipidæ, *Guen. Noct.* ii. 300.

Hadenides, p., *Boisd.*; *Dup.*

Body stout. Head somewhat enclosed in the thorax. Proboscis very generally short. Palpi ascending, approximate; third joint more or less elongated. Antennæ rather short. Thorax convex. Prothorax well developed. Abdomen obconical, with small apical more or less diverging tufts. Fore wings often angular, very generally denticulated. Hind wings small. *Male.*—Antennæ robust and ciliated for half the length from the base.

A. Alæ anticæ margine exteriori denticulato.

A. Antennæ maris pectinatæ. - - 1. PHLEGETONIA, *Guen.*

B. Antennæ maris serratæ. - - 3. EUTELIA, *Hüb.*

B. Alæ anticæ margine exteriori non denticulato.

A. Antennæ maris pectinatæ. - - 5. INGURA, *Guen.*

B. Antennæ maris serratæ. - - 4. ANUGA, *Guen.*

C. Antennæ simplices. - - 2. PENICILLARIA, *Guen.*

Genus 1. PHLEGETONIA.

Corpus robustum, dense pilosum. Frons fasciculata. Proboscis brevissima. Palpi crassi, porrecti, pilosi, caput sat superantes; articulus 3us cylindricus, 2i dimidio non brevior. Antennæ corporis dimidio longiores. Thorax cristatus. Abdomen subcristatum, alas posticas superans, apice bifasciculatum. Pedes crassi; tibiæ posticæ calcaribus longis. Alæ breviusculæ, sat angustæ; anticæ apud costam rectæ, apice angulatæ, margine exteriori subangulato subdenticulato. *Mas.*—Antennæ dimidio basali pectinatæ.

Phlegetonia, *Guen. Noct.* ii. 301.

Body stout, thickly clothed. Front tufted. Proboscis very short. Palpi very stout, porrect, pilose, extending rather far beyond the head; third joint cylindrical, about half the length of the second. Antennæ more than half the length of the body. Thorax crested. Abdomen slightly crested, extending somewhat beyond the hind wings, with two thick tufts at the tip. Legs very stout; hind tibiæ with long spurs. Wings rather short and narrow. Fore wings straight in front, rectangular at the tips; exterior border slightly angular in the middle and slightly denticulated. *Male*.—Antennæ moderately pectinated for full half the length, minutely ciliated from thence to the tips.

1. PHLEGETONIA CATEPHIOIDES.

Nigra; abdomen apud medium fusco rufescente varium; alæ anticæ cinereo fuscoque variæ, fasciis lineisque conspicuis, macula apicali cinerascens, reniformi albo notata; posticæ albæ, nigro late marginatæ.

Phlegetonia Catephioides, Guen. Noct. ii. 301, 1107.

South Africa.

2. PHLEGETONIA? CARBO.

Nigra; alæ anticæ lineis transversis duplicatis subparallelis subundulatis atris, squamis nonnullis albis, reniformi vix conspicua; posticæ albæ, opalinæ, venis apice margineque nigris, squamis nonnullis apud angulum exteriorem cinereis.

Phlegetonia Carbo, Guen. Noct. ii. 302, 1108.

Australia.

Genus 2. PENICILLARIA.

Corpus robustum. Proboscis mediocriter longa. Palpi validi, porrecti, caput longe superantes; articulus 3us linearis, 2i dimidio non longior. Antennæ simplices, validæ, subpubescentes, corporis dimidio paullo longiores. Abdomen alas posticas dimidio fere superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ breviusculæ, sat angustæ, apud marginem exteriorem subdenticulatæ et subangulatæ; anticæ apud costam rectæ, apice subangulatæ, margine exteriore subobliquo.

Penicillaria, Guen. Noct. ii. 302.

Body stout. Proboscis moderately long. Palpi stout, porrect, extending far beyond the head; third joint linear, about half the length of the second. Antennæ simple, stout, very minutely pubescent, a little more than half the length of the body. Abdomen extending for nearly half the length beyond the hind wings. Legs stout; hind tibiæ with four long spurs. Wings rather short and narrow, slightly indented and angular along the exterior border. Fore wings straight in front, rectangular at the tips, slightly oblique along the exterior border; fourth inferior vein remote from the others.

Asia.

1. *PENICILLARIA NUGATRIX.*

Obscure ferruginosa; abdomen cervinum; alæ anticæ lineis transversis pallidis fusco marginatis; posticæ albæ, margine latissimo ferruginoso.

Penicillaria nugatrix, *Gæen. Noct. ii. 303, 1110.*

a—d. North India. From Mr. Stevens' collection.

e. Ceylon. Presented by R. Templeton, Esq.

2. *PENICILLARIA JOCOSATRIX.*

Fusca, subpurpurascens; tarsi albo-cincti; alæ anticæ lineis transversis angulatis strigæque discali albidis, fascia obliqua ferruginea; posticæ albæ, semihyalinæ, margine latissimo purpureo-fusco.

Penicillaria Jocosatrix, *Guen. Noct. ii. 304, 1111.*

Java.

3. *PENICILLARIA DELATRIX.*

Ferrugineo-fusca; tarsi albo-cincti; alæ anticæ fascia, gutta postica maculisque duabus anticis nigro-fuscis ex parte albido marginatis; posticæ cinereæ, apud margines fuscæ. Var. β.—Alæ anticæ fuscæ, macula costali subapicali dimidioque basali obscurioribus, macula 2a guttaque postica obsoletis.

Penicillaria delatrix, *Guen. Noct. ii. 304, 1112.*

Java.

4. *PENICILLARIA PALLIATRIX.*

Pallide cervina; thorax anticé squamis albis margaritaceis marginatus; alæ anticæ punctis lineisque transversis angulosis nigris, macula trigona costali subapicali saturate cervina, litura discali fulva albo marginata guttaque contigua alba; posticæ cinereæ, cervino marginatæ.

Penicillaria palliatix, Guen. Noct. ii. 305, 1113.

Java.

Country unknown.

5. *PENICILLARIA ABLATRIX.*

Ferrugineu; pectus album; pedes annulati; alæ anticæ suboblongæ, apice dentatæ, apud marginem exteriorem perobliquæ, plaga apud angulum interiorem alba, macula reniformi alba punctis duobus fuscis, macula apicali alba fusco conspurcata, lunulis duabus apicalibus nigris albo marginatis, striga contigua alba perobliqua, lineis transversis albis; posticæ albæ, margine rufescente lineaque nigricante connexis.

Penicillaria ablatix, Guen. Noct. ii. 303, 1109.

Genus 3. *EUTELIA.*

Corpus robustum. Caput bifasciculatum. Proboscis brevis. Palpi longi, ascendentes, caput longi superantes; articulus 3us cylindricus, 2o non brevior. Antennæ corporis dimidio paullo longiores. Abdomen alas posticas dimidio superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ angustæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore denticulato subangulato postice perobliquo. *Mas.*—Antennæ serratæ. Abdomen apice fasciculatum.

Eutelia, Hübn. Verz. Schmett. 259.

Eurhipia, Boisd.; Guen. Ann. Soc. Ent. Fr. vii. 222; Noct. ii. 305.

Phlogophora, p., Ochs.; Treit.

Body stout. Head tufted on each side at the base of the antennæ. Proboscis short. Palpi long, obliquely ascending, extending far beyond the head; third joint cylindrical, as long as the second. Antennæ little more than half the length of the body.

Abdomen extending for half its length beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings narrow. Fore wings straight in front, somewhat rounded at the tips; exterior border denticulated and slightly angular, very oblique along its hinder part. *Male*.—Antennæ serrated. Abdomen tufted at the tip.

1. EUTELIA ADULATRIX.

Cinereo-fusca; thorax albo conspersus; abdomen macula dorsali alba; alæ anticæ fascia media lata alba, lineis transversis undulatis albis nigrisque, maculis duabus marginalibus nigro-cyaneis, una exterior, altera interior; posticæ albæ, macula discali subtus margineque fuscis.

Noctua adulatrix, *Hübner. Eur. Schmett. Noct.* pl. 111, f. 517; pl. 142, f. 549, 550. *Dup. Hist. Nat. Lép. Fr.* vi. 352, pl. 94, f. 6; vii. 331, pl. 120, f. 3, 4. *Frey. Beitr.* iii. pl. 195.

Phlogophora adulatrix, *Treit. Schmett.* v. 370, 1. *Saporta, Ann. Soc. Ent. Fr.* iii. 187.

Noctua (Phlogophora) adulatrix, *Meig. Syst. Besch.* iii. 120, 69, pl. 101, f. 2, 3.

Eutelia adulatrix, *Hübner. Verz. Schmett.* 259, 2553.

Eurhipia adulatrix, *Boisd. Ind. Méth.* 122, 967. *Guen. Noct.* ii. 306, 1114.

South France.

a—e. Europe. From M. Becker's collection.

2. EUTELIA BLANDIATRIX.

E. adulatrice paullo major; alæ anticæ minus albo variæ, lituris omnibus minus dentatis; posticæ basi obscuratæ, margine saturate obscuro.

Eurhipia blandiatrix, *Boisd. Ind. Méth.* 122, 968. *Guen. Noct.* ii. 307, 1115.

Spain? Sicily?

Genus 4. ANUGA.

Fæm. Corpus sat robustum. Proboscis brevis. Palpi crassi, porrecti; articulus 3us gracilis, lanceolatus, 2i dimidio non longior. Antennæ graciles, simplices, corporis dimidio multo longiores. Abdomen alas posticas dimidio superans. Pedes sat validi; tibiæ

posticæ calcaribus longiusculis. Alæ angustæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriore sat obliquo.

Anuga, *Guen. Noct.* ii. 307.

Female. Body moderately stout. Proboscis short. Palpi thick, porrect; third joint slender, lanceolate, about half the length of the second. Antennæ slender, simple, much more than half the length of the body. Abdomen extending for about half its length beyond the hind wings. Legs rather stout; hind tibiæ with four rather long spurs. Wings narrow. Fore wings straight in front, rounded at the tips, rather oblique along the exterior border; first and second inferior veins contiguous; third near the second; fourth rather near the third.

1. ANUGA CONSTRICTA.

Fusca; abdomen cinereo varium; alæ anticæ punctis, plagis discalibus lineaque transversa exteriore angulosa albidis, gutta annuloque discalibus nigris; posticæ guttis nonnullis albidis, punctis submarginalibus nigris.

Anuga constricta, *Guen. Noct.* ii. 308, 1116.

Hindustan.

Genus 5. INGURA.

Mas. Caput et thorax robusta. Proboscis brevis. Palpi porrecti, longiusculi, caput sat superantes; articulus 3us linearis, 2i dimidio multo longior. Antennæ corporis dimidio non longiores, dimidio basali pectinate. Abdomen oblanceolatum, thorace multo angustius, abdomen superans. Pedes validi, pilosi; tibiæ posticæ calcaribus longis. Alæ angustæ, breviusculæ; anticæ apud costam subrectæ, apice rotundatæ, margine exteriore sat obliquo.

Ingura, *Guen. Noct.* ii. 309.

Male. Head and thorax rather stout. Proboscis short. Palpi porrect, rather long, extending some distance beyond the head; third joint linear, much more than half the length of the second. Antennæ about half the length of the body, moderately pectinated to a little more than half the length. Abdomen oblanceolate, much more slender than the thorax, extending beyond the hind wings. Legs stout, pilose; hind tibiæ with four long spurs. Wings narrow, rather short. Fore wings nearly straight in front, rounded at the tips, rather oblique along the exterior border.

North America.

1. INGURA DELINEATA.

Mas. *Cinerea*; antennæ pectinatæ; abdomen longum, acutum, alas posticas dimidio superans; alæ anticæ fasciis interiore et exteriori duplicatis, strigis duabus anticis marginalibus obscuris; posticæ ciliis flavescente albis.

Ingura delineata, Guen. Noct. ii. 311, 1118.

United States.

2. INGURA ABROSTOLOIDES.

Fœm. *Rufescente-cinerea*; abdomen maculis duabus basalibus lateralibus fasciisque duabus nigris; alæ anticæ subdentatæ, lineis duabus medianis remotis duplicatis, linea submarginali e litura flexuosa postica punctorum rufescentium, reniformi e punctis duobus rufescentibus cinereo marginatis; posticæ nigricante-cinereæ, basi pallidiores.

Ingura abrostoloides, Guen. Noct. ii. 311, 1119.

North America.

3. INGURA CRISTATRIX.

Cinerascens; alæ lineis marginalibus albidis; anticæ fuscæ, vitta rosea, linea basali lanceolata vittaque valde undulata albidis nigro marginatis.

Ingura cristatrix, Guen. Noct. ii. 313, 1122.

North America?

4. INGULA OCULATRIX.

Albido-cinerea; alæ anticæ cinereæ, striga lata basali, vitta arcuata exteriori maculaque submarginali testaceo albis ex parte nigro marginatis, vittæ apice lineolam nigram includente, linea marginali fusca; posticæ cinereæ, basi albidæ.

Ingula oculatrix, Guen. Noct. ii. 313, 1123.

a. United States. Presented by E. Doubleday, Esq.

West Indies.

5. INGURA ARCIGERA.

Fœm. *Cinerea* ; palporum articulus 2us magnus, securiformis ; thorax linea transversa nigra ; alæ anticæ litura basali angulata et arcu apicali nigris, lineis duabus cinereis angulosis parallelis approximatis ; posticæ basi pallidæ, nigricante marginatæ.

Ingura arcigera, Guen. Noct. ii. 312, 1120.

Isle St. Thomas.

South America.

6. INGURA LUNODES.

Cinerascens ; alæ anticæ cinereo-fuscæ, macula apicali alba ; fascia obliqua latissima cana, cinereo signata, fascia lunulata interiore fasciæque arcuata duplicata exteriori atris, lunulis marginalibus nigris macula apicali alba ; posticæ fuscæ, linea marginali interrupta nigra, ciliis ex parte albis.

Ingura lunodes, Guen. Noct. ii. 310, 1117.

Honduras. Cayenne. Brazil.

7. INGURA OBROTUNDA.

Fœm. *Flavescente-cinerea* ; abdomen squamis nonnullis nigris ; alæ anticæ rotundatæ, litura angulata basali, arcu posteriore lineæque mediana dentata nigris non bene determinatis, linea submarginali indistincta flexuosa duplicata, macula semilunari sordide albida strigæque nigra apicalibus, punctis marginalibus nigris ; posticæ cinereæ, basi pallidæ, nigricante marginatæ.

Ingura obrotunda, Guen. Noct. ii. 312, 1121.

Brazil.

Fam. 3. PLACODIDÆ.

Statura minor. Corpus sat gracile. Frons rotundata. Proboscis sat longa. Palpi non longi, articulis distinctis. Antennæ simplices. Thorax brevis, tegulis non bene determinatis. Abdomen vix villosum. Pedes non elongati, vix pilosi. Alæ anticæ integræ.

Placodidæ, *Guen. Noct.* ii. 315.

Size rather small. Body somewhat slender. Front rounded. Proboscis moderately long. Palpi not long, with distinct joints. Antennæ simple. Thorax short; lappets not much developed. Abdomen hardly villose. Legs not long, slightly pilose. Fore wings entire.

A. Palporum articulus 3us 2i dimidio æqualis.

1. PLACODES, *Boisd.*

B. Palporum articulis 2us 3o quadruplo longior.

2. DIASTEMA, *Guen.*

Genus 1. PLACODES.

Corpus sat gracile. Proboscis mediocriter longa. Palpi porrecti, sat validi; articulus 3us cylindricus, 2i dimidio non longior. Antennæ simplices, corporis dimidio valde longiores. Abdomen alas posticas vix superans. Pedes sat validi; tibiæ posticæ calcaribus longis. Alæ latiusculæ; anticæ apud costam rectæ, apice subrotundatæ, margine interiore subconvexo perparum obliquo.

Placodes, *Boisd. Ind. Méth.* 129; *Dup.*; *Guen. Noct.* ii. 315.

Trigonophora, p., *Hübner*.

Hadena, p., *Ochs*.

Plusia aut Abrostola, *Treit*.

Body rather slender. Proboscis moderately long. Palpi porrect, rather stout; third joint cylindrical, about half the length of the second. Antennæ simple, much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs moderately stout; hind tibiæ with long spurs. Wings rather broad. Fore wings straight in front, slightly rounded at the tips, slightly convex and very slightly oblique along the exterior border.

Europe.

1. PLACODES AMETHYSTINA.

Fusca ; abdomen cinereum ; alæ anticæ cupreo-fuscæ, maculis tribus nigris discalibus albo ex parte marginatis, fasciis duabus repandis pallide purpureis ; posticæ pallide cinereæ, margine obscuriore.

Noctua amethystina, *Hübner. Eur. Schmett. Noct.* 69, pl. 130, f. 597, 598. *Dup. Hist. Nat. Lép. Fr.* vi. 328, pl. 93, f. 3, 4.

Trigonophora amethystina, *Hübner. Verz. Schmett.* 217, 2163.

Plusia amethystina, *Treit. Schmett.* v. 136, 1.

Noctua (Hadena) amethystina, *Meig. Syst. Besch.* iii. 109, 49, pl. 101, f. 13.

Placodes amethystina, *Boisd. Ind. Méth.* 129, 1036. *Guen. Noct.* ii. 316, 1124.

a—c. Europe. From M. Becker's collection.

2. PLACODES SPENCEI.

Alæ anticæ cinereo-fuscescentes, nitidæ, roseo-luteæ, maculis duabus costalibus fuscis roseo separatis strigaeque revoluta roseo-albida ; posticæ cinereo-fuscæ, basi dilutiores.

Placodes Spencei, *Boisd. Ind. Méth.* 129, 1038. *Guen. Noct.* ii. 316, 1125.

Lombardy.

North America.

3. PLACODES CINEREOLA.

Fusco-cinerea ; alæ anticæ obscuriores, fascia exterior latissima pallidiore lineis duabus albidis marginata, linea exterior lunulata.

Placodes cinereola, *Guen. Noct.* ii. 316, 1126.

a. New York. Presented by E. Doubleday, Esq.

Asia.

4. PLACODES? FUSCO-MACULATA.

Alæ anticæ cinereæ fusco nebulosæ et striatæ, ad costam maculis duabus fuscis albo annulatis ; posticæ subcinereæ.

Placodes fusco-maculata, *Bremer und Grey, Beitr. zur Schmett. Fauna des Nordlichen China's*, 17, 89.

North China.

Genus 2. DIASTEMA.

Corpus sat gracile. Proboscis mediocriter longa. Palpi oblique ascendentes; articulus 3us conicus, brevissimus. Antennæ validæ, corporis dimidio multo longiores. Abdomen alas posticas vix superans. Pedes sat validi; tibiæ posticæ calcaribus longissimis. Alæ anticæ sat angustæ, apud costam rectæ, apice subrotundatæ, margine exteriori mediocriter obliquo. *Mas.* — Antennæ ciliatæ.

Diastema, *Guen. Noct.* ii. 317.

Placodes, p., *Boisd.*

Plusia, p., *Treit.*; *Dup.*

Body rather slender. Proboscis moderately long. Palpi obliquely ascending; third joint minute, conical, less than one-fourth of the length of the second. Antennæ stout, much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs rather stout; hind tibiæ with very long spurs. Fore wings rather narrow, straight in front, somewhat rounded at the tips, moderately oblique along the exterior border. *Male.* Antennæ ciliated.

1. DIASTEMA VIRGO.

Albido-rosea; abdomen cinereum linea alba; alæ anticæ glaucescente variæ, apud marginem exterioriorem obscuriores, maculis duabus subcostalibus fuscis, macularum marginibus, lineis duabus obliquis postice connexis lineaque submarginali albidis; posticæ cinereæ, margine fuscescente, ciliis pallidis.

Placodes virgo, *Boisd. Ind. Méth.* 129, 1037.

Plusia virgo, *Treit. Suppl.* 130. *Eversm. Faun. Volg-Ural.* 313.

Dup. Suppl. iv. 521, pl. 90. *Herr.-Schæff. Schmett. Eur.* ii. pl. 49, f. 248, 249.

Diastema virgo, *Guen. Noct.* ii. 317, 1128.

Ural Region.

2. DIASTEMA TIGRIS.

Albida, testaceo subtineta; alæ anticæ lineis transversis plurimis testaceis, fasciis quatuor incompletis macularibus guttisque marginalibus cervinis; posticæ albæ.

Diastema Tigris, *Guen. Noct.* ii. 1127.

Colombia.

Fam. 4. PLUSIDÆ.

Corpus robustum. Proboscis longa. Palpi ascendentes, bene determinati; articulus 3us sæpe longus. Antennæ graciles, filiformes, simplices. Thorax fasciculis elevatis. Abdomen cristatum. Alæ anticæ nitentes, non latæ, apice acutæ, sæpe maculis et lituris auratis aut argenteis; posticæ non signatæ.

Plusidæ, *Boisd. Ind. Méth.* 91; *Guen. Noct.* ii. 319.

Body stout. Proboscis long. Palpi ascending, well developed; third joint generally long. Antennæ slender, filiform, simple. Thorax with elevated tufts. Abdomen crested. Fore wings shining, not broad, acute at the tips, often adorned with gilded or silvery spots or marks. Hind wings without marks like those of the fore wings.

A. Alæ anticæ margine interiore non dentato.

A. Abdomen cristatum.

A. Alæ anticæ non metallicæ. - 1. ABROSTOLA, *Ochs.*

B. Alæ anticæ sæpissime plus minusve metallicæ.

3. PLUSIA, *Ochs.*

B. Abdomen non cristatum.

A. Palpi non fasciculati.

a. Alæ anticæ margine exteriore non denticulato.

i. Alæ anticæ latæ. - - - 2. CALYPTIS, *Guen.*

ii. Alæ anticæ angustæ. - - - 8. CONCANA, *Walk.*

b. Alæ anticæ margine exteriore denticulato.

i. Abdomen depressum. - - - 4. THYRIA, *Guen.*

ii. Abdomen carinatum. - - - 5. BASILODES, *Guen.*

B. Palpi fasciculati. - - - 7. CHLIARA, *Walk.*

B. Alæ anticæ apud marginem interiorem dentatæ.

6. PLUSIODONTA, *Guen.*

Genus 1. ABROSTOLA.

Corpus robustum. Proboscis longiuscula. Palpi longiusculi, suberecti; articulus 3us linearis, 2i dimidio non brevior. Antennæ subciliatæ, corporis dimidio longiores. Abdomen cristatum, alas posticas paullo superans. Pedes validi, pilosi; tibiæ posticæ calcaribus longis. Alæ non latæ; anticæ apud costam rectæ, apice angulatæ, margine exteriore sat obliquo.

Abrostola, *Ochs.*; *Hübner.*; *Treits.*; *Boisd.*; *Dup.*; *Steph.*; *Guen. Ann. Soc. Ent. Fr.* x. 67; *Noct.* ii. 320.

Body stout. Proboscis rather long. Palpi rather long, ascending, almost vertical; third joint linear, full half the length of the second. Antennæ simple, minutely ciliated, more than half the length of the body. Abdomen crested, extending a little beyond the hind wings. Legs stout, pilose; hind tibiæ with long spurs. Wings not broad. Fore wings straight in front, angular at the tips, rather oblique along the exterior border.

Europe.

1. ABROSTOLA URTICÆ.

Cinerea; palpi nigricantes; thorax cristis ferruginosis; abdomen cristis nigricantibus; alæ anticæ macularum marginibus, fasciis duabus duplicatis (una arcuata, altera undulata), et striga subapicali nigris, lineis duabus transversis undulatis albidis, una interiore, altera submarginali; posticæ nigro-cinereæ, basi pallidiores, ciliis pallidis.

———, *Engr. Pap. d'Eur.* pl. 169, f. 4, 5.

Noctua Asclepiadis, *Esp. Schmett.* iv. pl. 169, f. 4, 5. *Bork. Eur. Schmett.* iv. 344. *Dup. Hist. Nat. Lép. Fr.* vii. 400, pl. 132, f. 3. *Haw. Lep. Brit.* 256.

Noctua Urticæ, *Hübner. Eur. Schmett. Noct.* pl. 137, f. 625. *Dup. Lép. Fr.* vii. pl. 132, f. 2. *Frey. Beitr.* iii. pl. 287.

Noctua triplasia, *Hübner. Eur. Schmett. Noct.* f. 269.

Abrostola Urticæ, *Hübner. Verz. Schmett.* 248, 2462. *Treit. Schmett.* v. 145, 4. *Steph. Ill. Brit. Ent. Haust.* iii. 97. *Boisd. Ind. Méth.* 157, 1258. *Meig. Syst. Besch.* iii. 248, 1, pl. 121, f. 4. *Guen. Noct.* ii. 821, 1129.

Abrostola Asclepiadis, *Steph. Ill. Brit. Ent. Haust.* iii. 97.

a—i. England. From Mr. Stephens' collection.

j—n. England.

o—r. Europe. From M. Becker's collection.

s. South Africa. Presented by Dr. A. Smith.

t. Cape. From M. Dregé's collection.

2. ABROSTOLA ASCLEPIADIS.

Cinerascens; thorax fascia antica vittisque duabus nigricantibus; alæ anticæ fascia media lata nigro-cinerea, nigro marginata, ocellos tres concolores includente, linea marginali e lunulis nigris; posticæ subcinereæ, margine lato nigricante, ciliis pallidis.

- Noctua Asclepiadis, *Wien. Verz.* Y, 2. *Fabr. Ent. Syst.* iii. 2, 286?
Hüb. Eur. Schmett. Noct. f. 627. *Frey. Beitr.* iii. pl. 286.
 Abrostola Asclepiadis, *Hüb. Verz. Schmett.* 248, 2460. *Treit. Schmett.* v. pl. 142. *Boisd. Ind. Méth.* 157, 1257? *Guen. Noct.* ii. 322, 1132. *Bellier, de la Chavignerie, Ann. Soc. Ent. Fr. 2me Sér.* iv. *Bull.* 64.

France. Pyrenees. Switzerland.

a, b. Europe. From M. Becker's collection.

3. ABROSTOLA TRIPLASIA.

Cinerea; caput, thoracis fasciæ et abdominis cristæ nigra; alæ anticæ nigro-cinereæ, basi et extus canescentes, fasciis duabus duplicatis (interiore arcuata, exterior undulata), macularum marginibus et linea marginali lunulata nigris; posticæ cinereæ, basi pallidiores, ciliis albidis.

- , *Röes. Ins.* i. 34, f. 1—5. *Deg. Ins.* i. 123, pl. 6, f. 13—21; ii. 442. *Geoff. Ins. Par.* ii. 152. *Engr. Pap. d'Eur.* 578, a—d.

Phalæna-Noctua triplasia, *Linn. Syst. Nat.* i. 5, 175.

- Noctua triplasia, *Wien. Verz.* Y, 1. *Fabr. Ent. Syst.* iii. 2, 117, 354. *Sepp, Ins.* i. pl. 24. *Esp. Schmett.* iv. pl. 169, f. 1, 2. *Bork. Eur. Schmett.* iv. 343? *Hüb. Eur. Schmett. Noct.* f. 626. *Donov. Brit. Ins.* ix. pl. 298. *Haw. Lep. Brit.* 255. *Dup. Hist. Nat. Léop. Fr.* vii. 486, pl. 132. *Frey. Beitr.* iii. pl. 285.

Phalæna-Noctua complana, *Clerck, Icon.* pl. 9, f. 7.

- Abrostola triplasia, *Hüb. Verz. Schmett.* 248, 2461. *Treit. Schmett.* v. 138. *Steph. Ill. Brit. Ent. Haust.* iii. 96. *Boisd. Ind. Méth.* 157, 1259. *Guen. Noct.* ii. 323, 1133.

a—i. England. From Mr. Stephens' collection.

j—m. England.

n—r. Europe. From M. Becker's collection.

North America.

4. ABROSTOLA URENTIS.

Cinerea; thorax nigro bifasciatus; abdomen pallidum; alæ antica orbiculari et reniformi maximis fasciisque variis pallide cinereis conspersis, illis nigro marginatis, lineis quatuor transversis nigris, 1a basali, 2a interiore, 3a exteriore, 4a lunulata marginali; posticæ pallide cinereis, linea margineque latissimo fuscis.

Abrostola Urentis, Guen. Noct. ii. 322, 1130.

a—d. Trenton Falls, New York. Presented by E. Doubleday, Esq.

e. St. John's Bluff, East Florida. Presented by E. Doubleday, Esq.

f. Nova Scotia. From Lieut. Redman's collection.

5. ABROSTOLA OVALIS.

Cinerea; thorax lateribus carneis; abdomen cristis nigris; alæ anticæ orbiculari et reniformi maximis nigro marginatis, plaga basali ovata carnea, strigis apud angulum interiorem albidis, lineis tribus transversis nigris, 1a interiore arcuata, 2a exteriore undulata, 3a marginali; posticæ nigro-cinereæ, basi ciliisque albidis.

Abrostola ovalis, Guen. Noct. ii. 322, 1132.

a, b. New York. Presented by E. Doubleday, Esq.

South America.

6. ABROSTOLA TINCTOIDES.

Mas. *Nigro-cinerea*; fasciculus frontis nigro lineatus; abdomen pallidum; alæ anticæ apud fascias ferrugineo violaceo nebulosæ, plaga apud marginem exteriorem albo-viridescente, linea basali subarcuata, lineis medianis nigris remotis, linea submarginali vaga serrato-dentata, strigis duabus apicalibus nigris, orbiculari et reniformi nigro marginatis; posticæ nigricantes, basi albæ lunulis venisque nigris.

Abrostola tinctoides, Guen. Noct. ii. 323, 1134.

Brazil.

Asia.

7. ABROSTOLA SUBAPICALIS.

Fœm. *Cinerea*; thorax fasciis duabus indistinctis fusciscentibus; alæ anticæ lineis transversis undulatis subobsoletis, lineis duabus nigris duplicatis sat distinctis, una interiore angulosa, altera exteriore angulum anticum acutum fingente, litura furcata albida subapicali, macula apud angulum interiorem ferruginea, lunulis submarginalibus nigris, orbiculari et reniformi subobsoletis; posticæ albidæ, margine lato nigro-cinereo, macula apud angulum interiorem albida.

Female. Cinereous. Thorax with two indistinct brownish bands. Fore wings with almost obsolete transverse undulating lines; two more distinct transverse double black lines; the one interior, somewhat zigzag; the second exterior, forming an acute angle in front; an irregular forked whitish mark between this angle and the tip; a ferruginous spot by the interior angle, and a row of slender submarginal black lunules; orbicular and reniform spots almost obsolete. Hind wings whitish, with broad dark gray borders, and with a whitish spot by the interior angle; lunules like those of the fore wings. Length of the body 6 lines; of the wings 13 lines.

a. North India. From Mr. James' collection.

Africa.

8. ABROSTOLA TRANSFIXA.

Mas. *Cinerea*; *abdomen pallidum*; *alæ anticæ subschistacæ, triente media obscuriore, fasciis duabus subroseis nigro marginatis, lineis basali et submarginali nigris, hac angulosa, orbiculari indistincta, reniformi nigro marginata, striga discali obliqua lanceolata albida, margine exteriori subdenticulato; posticæ pallide cinereæ, margine lato fuscescente, ciliis albidis fusco notatis.*

Male. Cinereous. Abdomen pale. Fore wings somewhat slate-colour, a little paler between the interior and exterior transverse lines, which are double, undulating, and black; a pinkish tinge between each pair; basal and submarginal lines black, the latter zigzag; orbicular spot indistinct; reniform with a black border, much excavated on the exterior side; a whitish lanceolate oblique streak across the space between the interior and the exterior lines, both of which it interrupts; exterior border slightly denticulate. Hind wings pale cinereous, with a broad brownish border; ciliæ whitish, with brown marks. Length of the body 6 lines; of the wings 16 lines.

a. Port Natal. From M. Gueinzus' collection.

Genus 2. CALYPTIS.

Fœm. Corpus robustum, læve. Frons plana. Oculi maximi. Proboscis valida, sat longa. Palpi ascendentes, approximati; articulus 2us subtumidus, arcuatus; 3us longissimus, rectus, com-

pressus, filiformis. Antennæ graciles, filiformes, simplices, corporis dimidio longiores. Abdomen apice acuminatum, alas posticas vix superans. Pedes sat graciles; tarsi spinosi. Alæ latæ; antice fasciis maculisque obsoletis, apud costam rectæ, apice acutæ, margine exteriori subobliquo.

Calyptis, *Guen. Noct.* ii. 323.

Female. Body robust, smooth. Front flat. Eyes very large. Proboscis rather long and stout. Palpi ascending vertically; second joint curved, slightly tumid; third very long, straight, compressed, filiform. Antennæ slender, simple, filiform, more than half the length of the body. Abdomen hardly extending beyond the hind wings, acuminate at the tip. Legs rather slender; tarsi spinose. Wings broad. Fore wings with a nearly rectangular stripe, but without the usual spots and bands, straight in front, acute at the tips, slightly oblique along the exterior border.

1. CALYPTIS ITER.

Fœm. *Cinerea*; *thorax albido varius*; *alæ anticæ auratæ, costa marginibusque cinereis, vitta cinereo-alba obliqua apud costam angulata, lineola antica submarginali alba; posticæ cinereæ, ciliis albidis.*

Calyptis Iter, *Guen. Noct.* ii. 324.

North America?

Genus 3. PLUSIA.

Corpus robustum Proboscis longiuscula. Palpi ascendentes aut erecti; articulus 3us variabilis. Abdomen cristatum, alas posticas sat aut vix superans. Pedes longiusculi; tibiæ posticæ calcaribus longis. Alæ anticæ apice plus minusve angulatæ, margine exteriori sat obliquo nonnunquam subdenticulato.

Plusia, *Ochs.*; *Treit.*; *Dup.*; *Steph.*; *Guen. Ann. Soc. Ent. Fr.* x. 65; *Noct.* ii. 324.

Euchalcia, *Autographa*, *Polychrysia*, *Panchrysia*, *Agrapha*, *Diachrysia*, *Chrysaspidia* et *Syngrapha*, *Hübner. Verz. Schmett.*

Plusia et *Chrysoptera*, *Latr.*; *Boisd.*; *Dup.*

Body stout. Proboscis rather long. Palpi ascending, oblique or vertical; third joint cylindrical or lanceolate, very variable as to length, occasionally as long as the second. Antennæ simple, more

than half the length of the body. Abdomen crested, extending somewhat, or very little, beyond the hind wings. Legs rather long; hind tibiæ with long spurs. Wings not broad. Fore wings generally partly gilded or silvery, straight in front, more or less angular at the tips, rather oblique and sometimes slightly denticulated along the exterior border.

Group 1.

Alæ anticæ sericeæ, lituris vix ullis metallicis.

Fore wings satiny, hardly adorned with metallic lustre.

1. PLUSIA EUGENIA.

Albida; caput ferrugineum; thorax antice ferrugineus, postice lutescens; abdomen cristis ferrugineis; alæ anticæ roseæ, cinereo nebulosæ, fascia basali strigaeque subapicali nigris, fascia exteriore angulata lineola postica lunulaque subapicali albis, macula apicali rubra; posticæ sordide testaceæ, fasciis duabus cinereis.

Plusia Eugenia, Eversm. *Bull. Soc. Imp. Nat. Mosc.* 1841, 1; *Faun. Volg-Ural.* 316. Herr.-Schæff. *Schmett. Eur.* ii. pl. 53, f. 267. Guen. *Noct.* ii. 329, 1140.

Plusia Cheiranthi, *Mém. Nat. Mosc.* ii. pl. 20.

South Ural Region.

2. PLUSIA ILLUSTRIS.

Viridi-cinereus; thorax fascia antica ochracea; abdomen testaceum; alæ venis nonnullis lineisque transversis undulatis roseis et testaceis, maculis tribus marginalibus ochraceis; posticæ sordide testaceæ, fascia margineque cinereis.

———, *Engr. Pap. d'Eur.* 583, a—d.

Noctua illustris, *Fabr. Mant. Ins.* ii. 164, 195; *Ent. Syst.* iii. 2, 84, 245. Bork. *Eur. Schmett.* iv. 761, 346. Hübn. *Eur. Schmett. Noct.* pl. 56, f. 274. Dup. *Lép. Fr.* vii. 10, pl. 133, f. 1. Frey. *Beit.* pl. 65. Haw. *Lep. Brit.* 9.

Phalæna-Noctua illustris, *Gmel. ed. Syst. Nat.* i. 5, 2558, 1116.

Plusia illustris, *Treit. Schmett.* v. 154, 8. *Curt. Brit. Ent.* pl. 731. Meig. *Syst. Besch.* iii. 250, 2, pl. 121, f. 6. Steph. *Ill. Brit. Ent. Haust.* iii. 98. Boisd. *Ind. Méth.* 158, 1265. Eversm. *Faun. Volg-Ural.* 316. Guen. *Noct.* ii. 330, 1141.

Noctua cuprea, *Esp. Schmett.* iv. pl. 110, f. 4.
Euchalcia illustris, *Hübner. Verz. Schmett.* 250, 2471.

a—c. England. From Mr. Stephens' collection.

d, e. England.

f—i. Europe. From M. Becker's collection.

j. Germany.

3. *PLUSIA URALENSIS*.

Testaceo-cinerea; *alæ anticæ roseæ, triente media glauco-cinerea flavo extus marginata, striga obliqua glauca maculaque reniformi albo marginatis, lineis duabus transversis interioribus linea discali lineaque submarginali albis, margine exteriori glaucescente maculis tribus oblongis rubris; posticæ cinereæ, fascia testacea.*

Plusia Uralensis (*illustris, var.*), *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1842, 2; *Faun. Volg-Ural.* 316. *Herr.-Schæff. Schmett. Eur.* ii. pl. 53, f. 268.

Plusia Uralensis, *Dup. Hist. Nat. Léop. Fr. Suppl.* iv. 522, pl. 90. *Guen. Noct.* ii. 330, 1142.

Ural Region.

4. *PLUSIA MODESTA*.

Pallide cinerea; *thorax antice testaceus; abdomen cristis ferrugineis; alæ anticæ fusco variæ, fascia basali, fasciis duabus duplicatis (interiore angulata, exteriori subundulata,) macularum marginibus, gutta intermedia lineisque duabus submarginalibus postice connexis albidis; posticæ cinereæ.*

———, *Engr. Pap. d' Eur.* 580, a, b.

Noctua cuprea, *Esp. Schmett.* iv. pl. 110, f. 3.

Noctua modesta, *Hübner. Eur. Schmett. Noct.* pl. 76, f. 354. *Dup. Léop. Fr.* vii. 2, pl. 133, f. 2.

Euchalcia modesta, *Hübner. Verz. Schmett.* 250, 2472.

Plusia modesta, *Treit. Schmett.* v. 152, 7. *Meig. Syst. Besch.* iii. 250, 3, pl. 121, f. 7. *Boisd. Ind. Méth.* 158, 1264. *Eversm. Faun. Volg-Ural.* 316. *Guen. Noct.* ii. 331, 1143.

a, b. Europe. From M. Becker's collection.

5. PLUSIA CONSONA.

Cinerea; antennæ rufescentes; thorax maculis tribus nigricantibus; margo anticus rufescens; abdomen canescens, cristis fuscis; alæ anticæ nigro-fuscæ, basi apiceque subtestaceæ, lineis duabus transversis undulatis duplicatis unaque exteriori testaceis, annulo punctoque discalibus lineaque posteriore argenteis; posticæ canescentes, fascia margineque lato cinereis.

Noctua consona, *Fabr. Mant. Ins.* ii. 163, 194; *Ent. Syst.* iii. 2, 83, 244. *Bork. Eur. Schm.* iv. 759, 345. *Hüb. Eur. Schm.* Noct. pl. 56, f. 273. *Dup. Léop. Fr.* vii. 15, pl. 133, f. 3. *Frey. Beit.* iii. pl. 214.

Phalæna-Noctua consona, *Gmel. ed. Syst. Nat.* i. 5, 2558, 1115.

Plusia consona, *Treit. Schm.* v. 150, 6. *Meig. Syst. Besch.* iii. 249, 1, pl. 121, f. 8. *Boisd. Ind. Méth.* 158, 1263. *Guen. Noct.* ii. 331, 1144.

Euchalcia consona, *Hüb. Verz. Schm.* 250, 2473.

a—e. Europe. From M. Becker's collection.

Group 2.

Palpi longissimi, articulo 3o arcuato lanceolato.

Chrysoptera, *Latr.*; *Boisd.*

Autographa, p., Polychrysia et Panchrysia, *Hüb.*

Palpi very long, curved; third joint lanceolate, as long as the second.

6. PLUSIA CONCHA.

Rufo-ferruginea; abdomen cinereum; alæ anticæ macularum marginibus et fasciis undulatis fuscis, lituris basalibus et discalibus, plaga postica fasciæque diffusa submarginali aureis.

———, *Engr. Pap. d'Eur.* 587.

Noctua concha, *Fabr. Mant. Ins.* ii. 161, 174. *Ent. Syst.* iii. 2, 77, 221. *Bork. Eur. Schm.* iv. 779, 356. *Hüb. Eur. Schm.* Noct. pl. 59, f. 287; pl. 97, f. 458. *Fisch. Ent. Russ.* i. 69, pl. 4. *Frey. Beit.* pl. 76. *Dup. Léop. Fr.* vii. 63, pl. 139, f. 3.

Phalæna C-aureum, *Knoch, Beit.* i. pl. 1, f. 2.

Phalæna-Noctua concha, *Gmel. ed. Syst. Nat.* i. 5, 2555, 1100.

Noctua C-aureum, *Esp. Schmett.* iv. pl. 110, f. 5. *Fuessl. Neue, Mag.* i. 215.

Plusia concha, *Treit. Schmett.* v. 161, 11. *Guen. Noct.* ii. 332, 1145.

Autographa concha, *Hübner. Verz. Schmett.* 251, 2489.

Chrysoptera concha, *Meig. Syst. Besch.* iii. 261, 1, pl. 123, f. 3. *Boisd. Ind. Méth.* 157, 1262.

a—d. Europe. From M. Becker's collection.

e. Europe. From Mr Milne's collection.

f, g. Germany.

7. PLUSIA MONETA.

Testacea, cristis ferrugineis; abdomen albidum; alæ anticæ auratæ, lineis transversis undulatis fasciaque angulata fuscis, fascia marginali pallide purpurascente, reniformis margine argenteo; posticæ lineis duobus discalibus margineque luto fuscis.

———, *Engr. Pap. d'Eur.* 384, a, b.

Noctua moneta, *Fabr. Mant. Ins.* ii. 162, 183; *Ent. Syst.* iii. 79, 229. *Bork. Eur. Schmett.* iv. 780, 357. *Hübner. Eur. Schmett. Noct.* pl. 59, f. 288. *Frey. Beit.* ii. pl. 71. *Dup. Léop. Fr.* vii. 63, pl. 139, f. 2.

Phalæna-Noctua moneta, *Gmel. ed. Syst. Nat.* i. 5, 2556, 1105.

Noctua flavago (*Argyritis, texte*), *Esp. Schmett.* iv. 218, pl. 112, f. 1.

Noctua Napelli, *Vill. Ent. Linn.* 347, pl. 5, f. 21.

Polychrysia moneta, *Hübner. Verz. Schmett.* 251, 2492.

Plusia moneta, *Treit. Schmett.* v. 158, 10; *Guen. Noct.* ii. 332, 1146.

Chrysoptera moneta, *Meig. Syst. Besch.* iii. 262, 3, pl. 123, f. 2. *Boisd. Ind. Méth.* 157, 1261.

a—d. Europe. From M. Becker's collection.

e. Europe.

8. PLUSIA DEAURATA.

Ferruginea; caput luteum; palpi apice nigricantes; thorax antice luteus, ferrugineo cinereoque fasciatus; alæ anticæ fascia lata antice repanda costamque totam occupante aurea fusco marginata, costa fasciis duobus submarginalibus ciliisque roseis; posticæ nigro-cinereæ, ciliis luteis.

Noctua deaurata, *Esp. Schmett.* iv. 203, pl. 110, f. 6. *Schr. Faun. Boic.* 1600. *Dup. Léop. Fr.* vii. 60, pl. 139, f. 1. *Frey. Beit.* iii. pl. 196.

Noctua chryson, *Bork. Eur. Schmett.* iv. 765, 348.

Noctua aurea, *Hübner. Eur. Schmett. Noct.* pl. 25, f. 289.

Panchrysia aurea, *Hübner. Verz. Schmett.* 252, 2493.

Plusia deaurata, *Treit. Schmett.* v. 157, 9. *Herr.-Schæff. Schmett. Eur.* ii. f. 207. *Guen. Noct.* ii. 332, 1147.

Chrysoptera deaurata, *Meig. Syst. Besch.* iii. 261, 2, pl. 123, f. 1. *Boisd. Ind. Méth.* 157, 1260.

a, b. Europe. From M. Becker's collection.

Group 3.

Alæ anticæ angulo apicali hamato, plagis auratis repandis.

Agrapha, Diachrysia et Chrysaspidia, Hübner.

Fore wings with the gilded patches occupying a great part of the surface; apical angle falcate.

9. PLUSIA ÆREA.

Lutea; thorax tegulis et fasciculis ferrugineo marginatis; abdomen cinereum; alæ anticæ fasciis indistinctis roseis, lineis obliquis et macularum marginibus ferrugineis, fascia exterior duplicata aurea; posticæ ferrugineo-cinereæ, ciliis testaceis.

Noctua ærea, Hübner. Eur. Schmett. Noct. pl. 56, f. 271. *Dup. Hist. Nat. Léop. Fr.* vii. 17, pl. 133, f. 4.

Agrapha Ærea, Hübner. Verz. Schmett. 250, 2474.

Plusia Ærea, Meig. Syst. Besch. iii. 250, 4, pl. 121, f. 5. *Boisd. Ind. Meth.* 159, 1280. *Guen. Noct.* ii. 333, 1148.

Dalecarlia.

a—c. Trenton Falls, New York. Presented by E. Doubleday, Esq.

d. East Florida. Presented by E. Doubleday, Esq.

e. Nova Scotia. From Lieut. Redman's collection.

f. Orilla, West Canada. From Mr. Bush's collection.

g. ———? From Mr. Milne's collection.

10. PLUSIA ORICHALCEA.

Ferruginea; caput et thorax anticus lutea; abdomen pallide flavescens; alæ anticæ disco cupreæ, plaga maxima exterior aurata lineam ferrugineam includente; posticæ pallidæ, margine lato cinereo.

- , *Engr. Pap. d' Eur.* 589, a.
Noctua orichalcea, *Fabr. Sp. Ins.* ii. 227, 92; *Mant. Ins.* ii. 161, 175; *Ent. Syst.* iii. 2, 77, 222. *Bork. Eur. Schmett.* iv. 764, 347. *Harr. Expl.* pl. 6. *Hüb. Eur. Schmett. Noct.* pl. 57, f. 278. *Haw. Lep. Brit.* 3. *Dup. Léop. Fr.* vii. 18, pl. 135, f. 1. *Frey. Beit.* ii. pl. 59.
Phalæna-Noctua orichalcea, *Gmel. ed. Syst. Nat.* i. 5, 2555, 1102.
Noctua chryson, *Esp. Schmett.* iv. pl. 141, f. 2.
Noctua æriferæ, *Sowerby, Brit. Misc.* pl. 29.
Diachrysia orichalcea, *Hüb. Verz. Schmett.* 252, 2495.
Plusia orichalcea, *Treit. Schmett.* v. 173, 16. *Meig. Syst. Besch.* iii. 253, 9, pl. 121, f. 12. *Steph. Ill. Brit. Ent. Haust.* iii. 105. *Boisd. Ind. Méth.* 159, 274. *Guen. Noct.* ii. 334, 1149.
a, b. England. From Mr. Stephens' collection.
c, d. England.
e—g. Europe. From M. Becker's collection.

11. PLUSIA ZOSIMA.

Cinerea; caput ferrugineum; thorax antice luteus, fasciculis apice fuscis; abdomen cristis fuscis; alæ anticæ auratæ, margine exteriori pallidiore, costa fuscescente, striga apud macula cuprea; macularum marginibus plagisque duabus posticis ferrugineis; posticæ cinereæ, fascia tenui obscuriore, ciliis albidis.

- Noctua Zosima*, *Hüb. Eur. Schmett. Noct.* f. 651.
Diachrysia Zosima, *Hüb. Verz. Schmett.* 252, 2497.
Plusia Zozimi, *Boisd. Ind. Méth.* 158, 1271. *Dup. Suppl.* iv. 232, pl. 70, f. 4. *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1837, 1; *Faun. Volg.-Ural.* 320. *Herr.-Schæff. Schmett. Eur.* iii. f. 208. *Guen. Noct.* ii. 334, 1151.

Ural Region.

- a, b. Europe. From M. Becker's collection.

12. PLUSIA CHRYSITIS.

Lutea; thoracis tegula et fasciculi apice cinerea; abdomen cinereum; alæ anticæ ferruginæ, lituris fuscis, fasciis duabus latis connexis auratis; posticæ nigricante-cinereæ, ciliis pallidis.

- , *Rai, Ins.* 182, 45. *Albin, Ins.* pl. 71, f. a—d. *Merian, Ins. Eur.* pl. 39. *Roës. Ins.* i. 2, pl. 31. *Geoffr. Ins. Par.* ii. 149, 97. *Schæff. Icon.* pl. 101, f. 2, 3. *Deg. Ins.* ii. 428, 2. *Kuhn. Naturf.* vi. pl. 3, f. 5, 6. *Engr. Pap. d'Eur.* 588, a—d.
- Phalæna-Noctua chrysitis*, *Linn. Syst. Nat.* 843, 126; *Faun. Suec.* 169. *Scop. Ent. Carn.* 517. *Wien. Verz.* 92, 2. *Sepp. Ins.* i. 5, pl. 1, f. 7—12. *Gmel. ed. Syst. Nat.* i. 5, 2554, 126. *Brahm, Ins.* 94, 394.
- Noctua chrysitis*, *Fabr. Sp. Ins.* ii. 226, 91; *Mant. Ins.* ii. 161, 173; *Ent. Syst.* iii. 2, 76, 220. *Esp. Schmett.* iv. pl. 109, f. 1—5. *Bork. Eur. Schmett.* iv. 767, 349. *Hübner. Eur. Schmett. Noct.* pl. 56, f. 272; pl. 145, f. 662, 663. *Donov. Brit. Ins.* iii. pl. 137. *Haw. Lep. Brit.* 2. *Dup. Léop. Fr.* vii. 21, pl. 134, f. 3, 4. *Frey. Beit.* pl. 89.
- Diachrysia chrysitis*, *Hübner. Verz. Schmett.* 252, 2496.
- Plusia chrysitis*, *Treit. Schmett.* v. 169, 15. *Meig. Handb.* 181, 87; *Syst. Besch.* iii. 251, 5, pl. 121, f. 9. *Steph. Ill. Brit. Ent. Haust.* iii. 105. *Boisd. Ind. Méth.* 159, 1273. *Guen. Noct.* ii. 335, 1152.
- a—g. England. From Mr. Stephens' collection.
 r. England. From Mr. Stevens' collection.
 s—v. England.
 u—y. Europe. From M. Becker's collection.

13. PLUSIA AURIFERA.

Lutea; thoracis tegulæ et fasciculi apice cinerea; abdomen testaceum; alæ anticæ roseo-ferrugineæ, lituris obscurioribus, vitta latissima aurata angulata, macula antica cuprea; posticæ nigro-cinereæ, basi pallidæ.

- Noctua aurifera*, *Hübner. Eur. Schmett. Noct.* pl. 98, f. 463. *Dup. Léop. Fr.* vii. 24, pl. 134.
- Diachrysia aurifera*, *Hübner. Verz. Schmett.* 252, 2494.
- Plusia aurifera*, *Treit. Schmett.* iii. 168, 14. *Meig. Syst. Besch.* iii. 251, 6, pl. 121, f. 10. *Boisd. Ind. Méth.* 158, 1272; *Faun. Ent. Mad. Bomb. et Maur. Léop.* 95, 1. *Guen. Noct.* ii. 335, 1153.
- South Spain. St. Helena. Senegal. Madagascar. Bourbon. Mauritius. Java.

- a. Teneriffe.
 b. Hindostan. From Mr. Milne's collection.
 c—f. Punjab. Presented by Gen. Hearsay.
 g. Silhet. From Mr. Argent's collection.
 h. Ceylon. Presented by R. Templeton, Esq.

14. PLUSIA BRACTEA.

Sordide rosea ; caput et thorax anticus rufescentia ; abdomen testaceum, cristis fuscis ; alæ anticæ fusco variæ, plaga postica lutea, macula discali magna oblonga argentea ; posticæ sordide testaceæ, margine lato nigro-cinereo.

———, *Engr. Pap. d' Eur.* 590, a—d.

Noctua bractea, *Wien. Verz.* 314, 7. *Fabr. Mant. Ins.* ii. 161, 177; *Ent. Syst.* iii. 2, 78, 224. *Esp. Schmett.* iv. pl. 110, f. 1, 2. *Bork. Eur. Schmett.* iv. 775, 353. *Hüb. Eur. Schmett. Noct.* pl. 57, f. 279. *Haw. Lep. Brit.* 4. *Frey. Neue Beitr.* pl. 47, f. 3. *Dup. Léop. Fr.* vii. 26, pl. 134, f. 1.

Phalæna-Noctua bractea, *Gmel. ed. Syst. Nat.* i. 5, 2555, 1104.

Chrysaspidia bractea, *Hüb. Verz. Schmett.* 252, 2498.

Plusia bractea, *Treit. Schmett.* v. 176, 17. *Meig. Syst. Besch.* iii. 253, 10, pl. 121, f. 13. *Steph. Ill. Brit. Ent. Haust.* iii. 106. *Eversm. Faun. Volg-Ural.* 321. *Boisd. Ind. Méth.* 159, 1275. *Guen. Noct.* ii. 336, 1155.

Noctua securis, *Vill. Ent. Linn.* pl. 5, f. 10.

a—c. England. From Mr. Stephens' collection.

d—f. England.

g. Europe. From M. Becker's collection.

h. Europe. From Mr. Milne's collection.

i. Europe.

15. PLUSIA ÆMULA.

Cinerea ; caput et thorax anticus lutea ; abdomen cristis fuscis ; alæ anticæ subcervinæ, basi maculaque subapicali glaucescentibus, plaga postica maculam oblongam argenteam includente maculaque subapicali ferrugineis ; posticæ pallide cinereæ, margine lato obscuriore.

Noctua æmula, *Wien. Verz.* 314, 3, 4. *Hüb. Eur. Schmett. Noct.* iii. pl. 57, f. 280. *Dup. Léop. Fr.* vii. 28, pl. 135, f. 2.

Noctua lamina, *Fabr. Mant. Ins.* ii. 161, 176; *Ent. Syst.* iii. 277, 223. *Bork. Eur. Schmett.* iv. 776, 354.

Phalæna-Noctua lamina, *Gmel. ed. Syst. Nat.* i. 5, 2555, 1103.

Noctua chrysomelas, *Bork. Eur. Schmett.* iv. 778, 355.

Chrysaspidia æmula, *Hübner. Verz. Schmett.* 252, 2499.

Plusia æmula, *Trait. Schmett.* v. 177, 18. *Meig. Syst. Besch.* iii. 254, 11, pl. 122, f. 1. *Boisd. Ind. Méth.* 159, 1276. *Guen. Noct.* ii. 336, 1156.

Austria. Styria.

16. PLUSIA FESTUCÆ.

Rufescens; *thorax postice rubiginosus*; *abdomen pallide rufescens*; *alæ anticæ fusco-auratæ*, *maculis tribus oblongis argenteis*; *posticæ cinereæ*, *ciliis rufescentibus*.

———, *Albin. Ins.* pl. 84, f. G, H. *Petiv. Gazoph.* pl. 7, f. 7. *Wilk. Pap.* 8, pl. 1, a, 17. *Kléem. Ins.* i. pl. 30, f. A. *Deg. Ins.* ii. 1, 429, 3. *Act. Stockh.* 1748, pl. 6, f. 3, 4. *Engr. Pap. d'Eur.* 585, a—f.

Phalæna-Noctua Festucæ, *Linn. Syst. Nat.* 131; *Faun. Suec.* 1170. *Gmel. ed. Syst. Nat.* i. 5, 2557, 131.

Noctua Festucæ, *Fabr. Sp. Ins.* ii. 227, 93; *Mant. Ins.* ii. 161, 178; *Ent. Syst.* iii. 2, 78, 225. *Wien. Verz.* 92, 1. *Esp. Schmett.* iv. pl. 113, f. 6. *Bork. Eur. Schmett.* iv. 772, 351. *Donov. Brit. Ins.* ii. pl. 46. *Hübner. Eur. Schmett. Noct.* pl. 57, f. 277. *Haw. Lep. Brit.* 1. *Dup. Léop. Fr.* vii. 30, pl. 135. f. 4. *Frey. Beitr.* pl. 100.

Chrysaspidia Festucæ, *Hübner. Verz. Schmett.* 252, 2500.

Plusia Festucæ, *Trait. Schmett.* v. 165, 13. *Meig. Handb.* 180, 86; *Syst. Besch.* iii. 252, 7, pl. 121, f. 11. *Steph. Ill. Brit. Ent. Haust.* iii. 107. *Boisd. Ind. Méth.* 158, 1270. *Guen. Noct.* ii. 337, 1157.

a—g. England. From Mr. Stephens' collection.

h—j. England.

k—p. Europe. From M. Becker's collection.

q. Europe.

r. Orilla, West Canada. From Mr. Bush's collection.

s, y. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

z—dd. North America. Presented by E. Doubleday, Esq.

Group 4.

Alæ anticæ rufescentes, *maculis rotundatis*.

Autographa, p., *Hübner*.

Fore wings with a reddish ground-colour; their spots nearly round.

17. PLUSIA MYA.

Cervino-testacea ; abdomen pallidum ; alæ anticæ cervinæ, testaceo marginatæ, apud costam roseo tinctæ, linea disculi argentea ; posticæ cinereæ, ciliis pallide testaceis.

Noctua V-argenteum, *Esp. Schmett.* iv. pl. 188, f. 3.

Noctua Mya, *Hüb. Eur. Schmett. Noct.* pl. 56, f. 275. *Frey. Beitr.* pl. 107, f. 1. *Dup. Léop. Fr.* vii. 33, pl. 135, f. 3.

Plusia Mya, *Treit. Suppl.* 139. *Meig. Syst. Besch.* iii. 254, 12, pl. 122, f. 4. *Boisd. Ind. Méth.* 158, 1266. *Herr.-Schæff. Schmett. Eur.* f. 205. *Guen. Noct.* ii. 238, 1159.

Autographa Mya, *Hüb. Verz. Schmett.* 251, 2488.

a—c. Europe. From M. Becker's collection.

d. Orilla, West Canada. From Mr. Bush's collection.

18. PLUSIA IOTA.

Cervina ; thoracis tegulæ et fasciculi purpurascente marginata ; abdomen sordide testaceum, cristis cervinis ; alæ anticæ subauratæ, purpurascente variæ, litura arcuata guttaque oblonga argenteis, reniformi ex parte nigro marginata ; posticæ pallidæ, fascia margineque lato nigro-cinereis.

———, *Engr. Pap. d'Eur.* 592.

Phalæna-Noctua Iota, *Linn. Syst. Nat.* 130. *Gmel. ed. Syst. Nat.* i. 5, 2557, 130.

Noctua Iota, *Fabr. Sp. Ins.* ii. 228, 98; *Mant. Ins.* ii. 163, 189; *Ent. Syst.* iii. 2, 81, 237. *Esp. Schmett.* iv. pl. 103, f. 3, 4. *Bork. Schmett.* iv. 790, 362. *Hüb. Eur. Schmett. Noct.* pl. 58, f. 282. *Dup. Léop. Fr.* vii. 38, pl. 136, f. 2, 3. *Frey. Beitr.* pl. 94. *Donov. Brit. Ins.* viii. pl. 265. *Haw. Lep. Brit.* 5.

Autographa Iota, *Hüb. Verz. Schmett.* 251, 2481.

Plusia Iota, *Treit. Schmett.* v. 181, 20. *Meig. Handb.* 192, 90; *Syst. Besch.* iii. 256, 16, pl. 122, f. 7. *Boisd. Ind. Méth.* 159, 1279. *Guen. Noct.* ii. 338, 1160.

Noctua chrysis, *Naturf.* 10, pl. 11, f. 5, 6.

Noctua inscripta, *Esp. Schmett.* pl. 113, f. 5.

Noctua ancora, *Frey. Beitr.* pl. 47, f. 1.

Plusia percentationis, *Steph. Ill. Brit. Ent. Haust.* iii. 101.

a—z. England. From Mr. Stephens' collection.

aa—ee. England.

ff, gg. Europe. From M. Becker's collection.

hh. Europe.

Var. *Ferruginea* ; thorax antice lutescens fascia nigra, tegulis fasciculisque roseo marginatis ; abdomen cinereum, cristis ferrugineis ; alæ anticæ fasciis variis roseis et nigro-fuscis, lituris basalibus, lineis duabus et fascia repanda exterioribus, macularum marginibus ex parte et gutta propinqua aureis, reniformis margine exteriori nigro ; posticæ nigro-cinereæ, fascia ciliisque testaceis.

ii. Orilla, West Canada. From Mr. Bush's collection.

jj. ——— ? From Mr. Milne's collection.

19. PLUSIA MACROGRAMMA.

Rufescens ; abdomen subtestaceum ; alæ anticæ pallide rufescentes, lineis variis transversis nigris, plaga postica maculisque submarginalibus roseis, reniformi albo marginata, litura discali oblonga furcata lunulamque subincludente argentea, lineola ciliari media nigra ; posticæ pallidæ, fascia margineque lato nigro-cinereis.

Plusia macrogramma, Eversm. Bull. Soc. Imp. Nat. Mosc. 1842, 3. Guen. Noct. ii. 340, 1162.

Plusia Iota, var., Eversm. Faun. Volg-Ural. 321. Herr.-Schæff. Schmett. Eur. ii. pl. 53, f. 266.

Ural Region.

Group 5.

Alæ anticæ cinerascentes, litura discali metallica bene determinata.

Autographa, p., Hübn.

Fore wings with the ground-colour more or less gray ; a distinct metallic inscription on the disk.

20. PLUSIA CIRCUMSCRIPTA.

Ferrugineo-fusca ; thorax fascia antica rufa ; abdomen cinerascens ; alæ anticæ cupreo aureoque variæ, litura basali maculis discalibus lineisque duabus exterioribus transversis argenteis ; posticæ pallide cinereæ, margine lato fusco ; ciliis pallidis.

Noctua circumscripta, Dahl. Frey. Beitr. i. 42, pl. 23, f. 2. Geyer, Eur. Schmett. f. 855.

Plusia circumscripta, Meig. *Syst. Besch.* iii. 257, 18, pl. 122, f. 2.
Treit. Suppl. 137. *Boisd. Ind. Méth.* 159, 1277. *Dup.*
Supp. iii. 489, pl. 42, f. 2. *Guen. Noct.* ii. 343, 1166.

Sicily.

a. Europe. From M. Becker's collection.

21. PLUSIA CHALCITES.

Rubiginosa; caput et thorax anticus cervina; abdomen canescens,
 vitta dorsali fuscescente, lateribus subauratis; alæ anticæ pla-
 gis aureis nigro submarginatis maculisque duabus discalibus
 connexis argenteis; posticæ cinereo-fuscæ, basi ciliisque palli-
 dioribus.

———, *Engr. Pap. d' Eur.* pl. 334, f. 586, a, b.

Noctua chalcites, *Esp. Schmett.* iv. 447, pl. 141, f. 3. *Bork. Eur.*
Schmett. iv. 352.

Noctua chalsytis, *Hübner. Eur. Schmett. Noct.* pl. 57, f. 276. *Frey.*
Neue Beitr. pl. 47, f. 2. *Dup. Léop. Fr.* vii. 35, pl. 136, f. 1.

Plusia chalsytis, *Treit. Schmett.* v. 163, 12. *Meig. Syst. Besch.* iii.
 252, 8, pl. 122, f. 2. *Boisd. Ind. Méth.* 158, 1267; *Faune*
Ent. Mad. Bourb. et Maur. Léop. 95, 2.

Plusia chalcites, *Guen. Noct.* ii. 343, 1167.

Noctua Quæstionis, *Fabr. Ent. Syst.* iii. 2, 235. *Enc. Méth.* 315.

Noctua Bengalensis, *Rossi, Mant.* ii. pl. 3.

Autographa Questionis, *Hübner. Verz. Schmett.* 251, 2482.

Phalæna-Noctua Oo? *Cram. Pap. Exot.* iv. 45, pl. 311, f. E, F.

South Europe. Coast of Africa. Madagascar. Bourbon. Mau-
 ritius. Bengal.

a—d. Europe. From M. Becker's collection.

e. Europe. From Dr. Frivaldsky's collection.

f, g. Tuscany. Presented by Signor Passerini.

h. Madeira. Presented by Mrs. Hope.

i, j. Teneriffe. From Mr. Milne's collection.

22. PLUSIA INTERSCALARIS.

Ferruginea; abdomen cinereum, cristis ferrugineis; alæ anticæ
 maculis, lineis transversis et reniformis margine viridescenti-
 bus, fuscis variis nigris, litura discali furcata argentea; pos-
 ticæ subtestaceæ, fascia margineque lato cinereis.

Plusia interscalaris, Herr.-Schæff. Schmett. Eur. ii. pl. 99, f. 510.
Guen. Noct. ii. 346, 1172.

South Russia.

23. PLUSIA GUTTA.

Rufo-cinerea; abdomen cinereum; alæ anticæ aureo maculatæ, linea arcuata flexa, gutta oblonga, fascia exteriori lineaque marginali argenteis; posticæ cinereæ, margine lato fusco.

- , Engr. Pap. d' Eur. 591, a, b.
Noctua circumflexa, Wien. Verz. 93, 4? Fabr. Mant. Ins. ii. 162, 179; Ent. Syst. iii. 2, 78, 226?? Esp. Schmett. iv. pl. 111, f. 5, 6. Bork. Eur. Schmett. iv. 794, 364. Hübn. Eur. Schmett. Noct. pl. 58, f. 285. Dup. Léop. Fr. vii. 51, pl. 136, f. 4.
Phalæna-Noctua circumscripta, Gmel. ed. Syst. Nat. i. 5, 346, 1173.
Plusia circumflexa, Treit. Schmett. v. 179, 19. Meig. Handb. 181, 89; Syst. Besch. iii. 257, 20, pl. 122, f. 11. Boisd. Ind. Méth. 159, 1278.
Autographa Questionis, Hübn. Verz. Schmett. 251, 2482.
Plusia gutta, Guen. Noct. ii. 346, 1173.
South France. Austria. Styria. Hungary.

24. PLUSIA GAMMA.

Cinereo-ferruginea; abdomen cinereum; alæ anticæ aureo-cinereæ ferrugineo nigroque variæ, litura discali γ ; posticæ pallide cinereæ, margine lato nigricante.

- , Göed. Ins. ii. pl. 21. List, ed. Göed. f. 14. Rai, Ins. 163, 16. Petiv. Gazoph. pl. 64, f. 6. Albin, Ins. pl. 79, f. G, H. Réaum. Ins. ii. pl. 26, f. 5. Blank. Ins. pl. 8, f. N, P. Frisch, Ins. v. pl. 15. Merian, Ins. Eur. 82, f. 78. Roës. Ins. i. 3, pl. 5. Wilk. Pap. 34, pl. 2, a, 1. Schæff. Icon. pl. 84, f. 5. Sepp, Ins. i. 5, 1, pl. 1, f. 5, 6. Geoff. Ins. ii. 156. Engr. Pap. d' Eur. 594, f. g.
Phalæna-Noctua Gamma, Linn. Syst. Nat. 127; Faun. Suec. 1171. Scop. Ent. Carn. 523. Gmel. ed. Syst. Nat. i. 5, 2555, 127.
Noctua Gamma, Fabr. Sp. Ins. ii. 227, 94; Mant. Ins. ii. 162, 181; Ent. Syst. iii. 2, 79, 228. Wien. Verz. 93, 5. Esp. Schmett. iv. pl. 111, f. 1—4. Bork. Eur. Schmett. iv. 782, 358. Hübn. Eur. Schmett. Noct. pl. 58, f. 283. Rossi, Faun. Etr. 1126. Brahm, Ins. 109. Donovan. Brit. Ins. pl. 265. Haw. Lep. Brit. 6. Frey. Beitr. pl. 106. Dup. Léop. Fr. vii. 41, pl. 136, f. 4.

Autographa Gamma, *Hübner. Verz. Schmett.* 251, 2484.

Plusia Gamma, *Treit. Schmett.* v. 185, 21. *Meig. Handb.* 181, 88; *Syst. Besch.* iii. 255, 15, pl. 122, f. 6. *Steph. Ill. Brit. Ent. Haust.* iii. 103. *Boisd. Ind. Méth.* 159, 1282. *Guen. Noct.* ii. 348, 1177.

a, b. England. Presented by H. Doubleday, Esq.

c—j. England. From Mr. Stephens' collection.

k—q. England.

r. Switzerland. From Dr. Leach's collection.

s—v. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

u South Africa. From Mr. Argent's collection.

w. ———?

25. PLUSIA NI.

Cinereo-fusca; *abdomen cinereum*; *alæ anticæ cinereæ, fusco fasciatæ et signatæ, lineola guttaque discalibus contiguâ argenteis fuscescente notatis*; *posticæ margine lato nigricante, ciliis albis fusco strigatis.*

———, *Engr. Pap. d'Eur.* 595, a—c.

Noctua Ni, *Hübner. Eur. Schmett. Noct.* pl. 58, f. 284. *Frey. Neue Beitr.* i. pl. 23, f. 1. *Dup. Léop. Fr.* vii. 44, pl. 137, f. 1.

Autographa Ni, *Hübner. Verz. Schmett.* 251, 2485.

Plusia Ni, *Treit. Schmett.* v. 189, 22. *Meig. Syst. Besch.* iii. 256, 17, pl. 122, f. 8. *Boisd. Ind. Méth.* 159, 1283. *Guen. Noct.* ii. 349, 1178.

a, b. Europe. From M. Becker's collection.

c. New York. Presented by E. Doubleday, Esq.

d. Gibraltar. From Mr. Milne's collection.

e. ———? From Mr. Milne's collection.

26. PLUSIA ACCENTIFERA.

Statura P. consonæ; *alæ anticæ roseæ, ferrugineo variæ, micantes, aureo subvariegatæ, signo aureo notatis, lineola accentuloque aureis externis*; *posticæ fuscae.*

Plusia accentifera, *Lefebvre, Ann. Soc. Linn.* vi. 96, pl. 5, f. 2. *Boisd. Ind. Méth.* 158, 1269. *Treit. Suppl.* 134. *Guen. Noct.* ii. 351, 1182.

Noctua accentifera, *Dup. Léop. Fr.* vii. 49, pl. 137, f. 3.

Noctua L-aureum, *Frey, Neue Beitr.* i. pl. 23, f. 3.

Noctua hieroglyphica, *Frey*. 176.

Noctua L-album, *Geyer*, *Eur. Schmett.* f. 856.

Plusia L-aureum, *Meig. Syst. Besch.* iii. 257, 19, pl. 122, f. 10.

Portugal. Spain. Corsica. Sicily.

a. Europe. From Dr. Frivaldsky's collection.

27. PLUSIA DAUBEI.

Fusca; *thoracis tegulæ et fasciculi albido marginata*; *abdomen pallide cinereum, cristis fuscis*; *alæ anticæ aurato-fuscae, ciliis cinereis, lituris basalibus, fasciola discali obliqua fasciæque exteriore cinereis argenteo marginatis*; *posticæ cinereo-fuscae, ciliis albidis*.

Plusia Daubei, *Boisd. Ind. Méth.* 159, 1281. *Dup. Suppl.* iii. 486, pl. 42, f. 1. *Herr.-Schæff. Schmett. Eur.* ii. pl. 41, f. 206. *Guen. Noct.* ii. 351, 1184.

South France. Spain. Senegal. Hindostan.

28. PLUSIA CIRCUMFLEXA.

Ferruginea; *abdomen cinerascens*; *alæ anticæ cupreo-ferrugineæ, macula postica rufa argenteo submarginata, vitta discali flexa antice incisa basi attenuata*; *posticæ cinereæ, margine nigricante, ciliis pallidis nigricante interlineatis*.

Phalæna-Noctua circumflexa, *Linn. Syst. Nat.* 128.

Noctua circumflexa, *Haw. Lep. Brit.* 8.

Noctua Daubei, *Frey. Beitr.* iii. pl. 256, f. 2.

Plusia circumflexa, *Guen. Noct.* ii. 352, 1185.

Turkey. South Africa.

a—e. Europe. From M. Becker's collection.

f, g. Ukraine. Presented by Dr. Dowler.

h, i. ———? From Mr. Milne's collection.

Group 6.

Monticolæ. Statura parva. Corpus pilosissimum. Alæ anticæ subintegreæ; posticæ sæpissime flavæ, nigro marginatæ.

Autographa, p., et Syngrapha, Hübn.

Size small. Body very hairy. Fore wings almost entire. Hind wings most often yellow, with black borders.

29. *PLUSIA INTERROGATIONIS*.

Cinerea; *thorax fasciis nigris*; *alæ anticæ nigro canoque variæ*, *linea submarginali nigra distincta flexuosa*, *annulo incompleto guttaque discalibus approximatis argenteis*; *posticæ pallidæ*, *marginè lato nigricante*, *ciliis nigro strigatis*.

————, *Engr. Pap. d'Eur.* 593, a—d.

Phalæna-Noctua interrogationis, *Linn. Syst. Nat.* 129. *Faun. Suec.* 1172. *Clerck, Icon.* pl. 6, f. 7. *Gmel. ed. Syst. Nat.* i. 5, 2556, 129.

Noctua interrogationis, *Fabr. Sp. Ins.* ii. 228, 95. *Mant. Ins.* ii. 163, 186; *Ent. Syst.* iii. 2, 80, 233? *Wien. Verz.* 93, 3, *Esp. Schmett.* iv. pl. 113, f. 1. *Hübner, Eur. Schmett. Noct.* pl. 58, f. 281. *Frey. Beit.* pl. 130, f. 1. *Dup. Léop. Fr.* vii. 47, pl. 137, f. 2.

Noctua æmula, *Fabr. Mant. Ins.* ii. 162, 183; *Ent. Syst.* iii. 2, 80, 230. *Bork. Eur. Schmett.* iv. 789, 361.

Phalæna-Noctua æmula, *Gmel. ed. Syst. Nat.* i. 5, 2556, 1106.

Noctua aurosignata, *Donov. Brit. Ins.* pl. 453, f. 1.

Autographa interrogationis, *Hübner. Verz. Schmett.* 251, 2487.

Plusia interrogationis, *Treit. Schmett.* v. 190, 23. *Meig. Syst. Besch.* iii. 255, 14, pl. 122, f. 5. *Steph. Ill. Brit. Ent. Haust.* iii. 102. *Boisd. Ind. Méth.* 159, 1284. *Guen. Noct.* ii. 353, 1188.

a—j. England. From Mr. Stephens' collection.

k—m. England.

n. Scotland. Presented by Edwin Sheppard, Esq.

o. Scotland. From Mr. Stevens' collection.

p, q. Europe. From M. Becker's collection.

r. Lapland.

30. *PLUSIA U-AUREUM*.

P. interrogationis simillima; *alæ anticæ lineis medianis parallelis undulatis vix distinctis*, *submarginali bicolori angulosa bene determinato*, *marginè exteriorè spatioque postico cinereis nigro-conspersis*, *orbiculari subrhomboidea cinereo marginata*, *reniformi punctis nigris intercisâ*; *posticæ fuscescente-cinereæ*, *basi marginè cinereis*, *ciliis albis*, *nigro intercisâ*.

Plusia U-aureum, *Boisd. MSS.*; *Guen. Noct.* ii. 354, 1189.

Dalecarlia.

a, b. Europe. From M. Becker's collection.

31. PLUSIA AIN.

Nigro-cinerea; abdomen cinereum; alæ anticæ glaucescente variæ, lineis duabus undulatis albidis, linea submarginali angulosa, reniformi ex parte albo marginata, litura discali furcata argentea; posticæ luteæ margine lato nigro, ciliis canis nigro strigatis.

———, *Engr. Pap. d'Eur.* 596, a—d.

Noctua Ain, *Schr. Berl. Mag.* vi. 337, pl. 7. *Esp. Schmett.* iv. pl. 179, f. 4. *Bork. Eur. Schmett.* iv. 786, 359. *Hüb. Eur. Schmett. Noct.* pl. 151, f. 290. *Dup. Léop. Fr.* vii. 53, pl. 128, f. 2.

Syngrapha Ain, *Hüb. Verz. Schmett.* 250, 2476.

Plusia Ain, *Treit. Schmett.* v. 193, 24. *Meig. Syst. Besch.* iii. 258, 22, pl. 122, f. 14. *Boisd. Ind. Méth.* 160, 1288. *Guen. Noct.* ii. 354, 1190.

a—d. Europe. From M. Becker's collection.

32. PLUSIA DIVES.

Rufescens; alæ anticæ nigro variæ, guttis costalibus maculis variis discalibus lineaque marginali argenteis; posticæ luteæ, margine nigro.

Plusia dives, *Herr.-Schæff. Eur. Schmett.* ii. pl. 99, f. 511. *Guen. Noct.* ii. 355, 1191.

South Russia.

33. PLUSIA DIASEMA.

Statura P. Ain, P. microgrammæ affinis; alæ anticæ cinereæ, nitidæ, fascia lata transversa nigricante, characteribus argenteis, P. interrogationis inscripta; posticæ luteæ, fascia marginali lata arcuque discali nigris.

Plusia diasema, *Dalman, MSS.*; *Boisd. Ind. Méth.* 160, 1286. *Guen. Noct.* ii. 355, 1192.

Lapland.

34. *PLUSIA PARILIS*.

Nigro-cinerea; *alæ anticæ lineis transversis non bene determinatis, plaga postica quadrata nigro-fusca lituram argenteam Y formen includente*; *posticæ cinereæ, fascia albida*.

Noctua parilis, *Hübner. Eur. Schmett.* iii. *Noct.* f. 422.

Autographa parilis, *Hübner. Verz. Schmett.* 251, 2479.

Plusia parilis, *Boisd. Ind. Méth.* 159, 1285. *Dup. Suppl.* iv. 527, pl. 90, f. 6. *Guen. Noct.* ii. 355, 1193.

a. Lapland. Presented by J. R. Crowe, Esq.

35. *PLUSIA MICROGRAMMA*.

Nigro-cinerea; *thorax fasciis pallidis*; *alæ anticæ lineis transversis cinereis, macula discali diffusa nigra lituram subfusiformem albam includente, orbiculari et reniformi nigro pallidoque marginatis, triente apicali cinerea, linea submarginali angulosa nigra*; *posticæ luteæ, nigro marginatæ*.

Noctua microgramma, *Hübner. Eur. Schmett. Noct.* pl. 151, f. 698.

Dup. Léop. Fr. vii. 55, pl. 138, f. 2.

Plusia microgramma, *Treit. Schmett.* v. 198, 27. *Meig. Syst. Besch.* iii. 259, 23, pl. 122, f. 13. *Boisd. Ind. Méth.* 160, 1287. *Guen. Noct.* ii. 356, 1194.

North Germany.

a, b. Europe. From M. Becker's collection.

36. *PLUSIA DEVERGENS*.

Nigricans; *abdomen nigro-cinereum*; *alæ anticæ macularum marginibus fasciisque duabus fusco-cinereis, macula discali oblonga subfurcata alba, ciliis pallidis nigro notatis*; *posticæ luteæ, margine nigricante*.

Noctua devergens, *Hübner. Eur. Schmett. Noct.* f. 500, 501.

Syngrapha devergens, *Hübner. Verz. Schmett.* 250, 2478.

Plusia devergens, *Treit. Schmett.* v. 197. *Boisd. Ind. Méth.* 160, 1289. *Guen. Noct.* ii. 356, 1195.

Swiss Alps.

a. Europe. From M. Becker's collection.

37. *PLUSIA DIVERGENS*.

Ferruginea; *antennæ crassæ, maris serratæ*; *thoracis tegulæ et fasciculi cano marginata*; *abdomen cinereum*; *alæ anticæ fascia lata media lineaque submarginali obscurioribus, margine exteriori canescente, reniformi ex parte aureo marginata, lineola obliqua discali argentea*; *posticæ luteæ, margine nigro, ciliis pallidis*.

———, *Engr. Pap. d'Eur.* 597, a, b.

Noctua divergens, *Fabr. Mant. Ins.* ii. 162, 184; *Ent. Syst.* iii. 2, 80, 281. *Bork. Eur. Schmett.* iv. 787, 360. *Hüb. Eur. Schmett. Noct.* pl. 59, f. 286. *Dup. Léop. Fr.* vii. 56, pl. 138, f. 3.

Phalæna-Noctua divergens, *Gmel. ed. Syst. Nat.* i. 5, 2556, 1107.

Noctua Hohenwarthii, *Berl. Mag.* vi. pl. 7. *Esp. Schmett.* iv. pl. 179, f. 3.

Syngrapha divergens, *Hüb. Verz. Schmett.* 250, 2477.

Plusia divergens, *Treit. Schmett.* v. 194, 25. *Meig. Syst. Besch.* iii. 259, 24, pl. 122, f. 12. *Boisd. Ind. Méth.* 160, 1290. *Guen. Noct.* ii. 355, 1196.

a—d. Europe. From M. Becker's collection.

e, f. Lapland. Presented by J. R. Crowe, Esq.

North America.

Group 1.

Like the third European group.

38. *PLUSIA BALLUCA*.

Mas. Lutescens; *alæ anticæ virides, antice et extus luteo marginatæ, fascia angusta obliqua postmedia argentea*; *posticæ pallide cervinæ, margine postico late cinereo interlineato*.

Dyachrysia Balluca (*Noctua semigeometra*, *Plusia inscripta*), *Geyer, Zeitr. Samml. Exot. Schmett.* 22, 341, f. 681, 682.

Plusia Balluca, *Guen. Noct.* ii. 334, 1150.

a, b. Trenton Falls, New York. Presented by E. Doubleday, Esq.

c. Nova Scotia. From Lieut. Redman's collection.

d, e. Orilla, West Canada. From Mr. Bush's collection.

f, g. North America. From Mr. Milne's collection.

Group 2.

Like the fourth European group.

39. *PLUSIA THYATYROIDES*.

Cinerea ; abdomen pallidum ; alæ anticæ plagiis tribus (una basali, 2a costali exteriore, 3a postica) albido-carneis, vitta obliqua discali, guttis duabus anticis strigaeque arcuata subapicali nigris, U punctoque oblongo discalibus argenteis ; posticæ margine lato obscuriore.

Plusia Thyatyroides, *Guen. Noct.* ii. 337, 1158.

- a, b. New York. Presented by E. Doubleday, Esq.
c, d. Orilla, West Canada. From Mr. Bush's collection.

40. *PLUSIA U-BREVIS*.

Cervina aut rufescens ; abdomen cinereum ; alæ anticæ maculis costalibus fasciisque diffusis nigricantibus, fasciis interioribus et reniformi ex parte argenteo marginatis, maculis duabus discalibus argenteis, una subcyathiformi et lunula antica argentea connexis, altera magna subovata ; posticæ subcupræ.

Plusia bimaculata? *Steph. Ill. Brit. Ent. Haust.* iii. 101.

Plusia U-brevis, *Guen. Noct.* ii. 341, 1163.

Phalæna-Noctua Protea? *Cram. Pap. Exot.* iv. 244, pl. 400, f. M.

Surinam.

- a. United States. Presented by E. Doubleday, Esq.
b. Nova Scotia. From Lieut. Redman's collection.
c. ——— ?

Group 3.

Like the fifth European group.

41. *PLUSIA BILOBA*.

Ferruginea ; abdomen cinerascens ; alæ anticæ cupreo-ferrugineæ, lineis duabus basalibus transversis undulatis subargenteis, plaga discali antice incisa lineolaque anteriore arcuata, argenteis ; posticæ subcupræ.

Plusia biloba, Steph. Ill. Brit. Ent. Haust. iii. 104. Guen. Noct. iii. 341, 1164.

a—e. East Florida. Presented by E. Doubleday, Esq.
d, e. Venezuela. From Mr. Dyson's collection.

42. PLUSIA VERRUCA.

Purpurea; caput et thorax anticus lutea; abdomen pallide cinereum; alæ anticæ auratæ, apud costam ex parte purpureo-fuscae, macula guttaque discalibus argenteis; posticæ cupreo-cinereæ, basi pallidæ.

Noctua verruca, Fabr. Ent. Syst. iii. 2, 238. Enc. Méth. 315.

Phalæna-Noctua Oo? Cram. Pap. Exot. iv. 45, pl. 311, f. E, F.

Noctua Omega, Hübn. Zutr. f. 373, 374.

Autographa Omicron, Hübn. Verz. Schmett. 251, 2483.

Plusia Quæstionis, Treit. Schmett. Suppl. 132. Boisd. Ind. Méth. 158, 1668.

Plusia verruca, Guen. Noct. ii. 342, 2165.

a. United States. Presented by E. Doubleday, Esq.

b. United States. Presented by J. G. Children, Esq.

c. Venezuela. From Mr. Dyson's collection.

d. Bogotá.

e. ———?

43. PLUSIA ROGATIONIS.

Ferruginea; thorax fasciis fuscis cinereo marginatis; abdomen cinereum; alæ anticæ purpurascente suffusæ, aureo variæ, maculis duabus discalibus argenteis, una pyriformi, altera longi-ovata; posticæ cupreo-cinereæ, margine obscuriore, ciliis pallidis.

Plusia rogationis, Guen. Noct. ii. 354, 1169.

North America. Colombia. Australia.

44. PLUSIA PRECATIONIS.

Obscure fusca; abdomen cinereum; alæ anticæ lineis transversis undulatis basalibus et exterioribus maculisque duabus oblongis (una antice aperta) argenteis, plaga discali fasciaque exteriore nigris, plaga marginali subcuprea; posticæ cupreo-fuscae, ciliis pallidis.

Plusia precationis, Guen. Noct. ii. 344, 1170.

- a—e. Trenton Falls, New York. Presented by E. Doubleday, Esq.
 f. Philadelphia. Presented by E. Doubleday, Esq.
 g. Orilla, West Canada. From Mr. Bush's collection.
 h. Massachusetts. From Prof. Sheppard's collection.

Var. Female. Reddish ferruginous. Third joint of the palpi full half the length of the second. Thorax orange in front; lappets and tufts with cinereous borders. Abdomen somewhat fawn-colour. Fore wings rather acute, mostly gilded, with a purplish tinge; bands and part of the reniform spot somewhat orange, with slight silvery borders; two or three blackish dots at the base; orbicular spot almost obsolete; submarginal line indistinct; discal mark yellowish silvery, brilliant, almost divided, the fore part irregularly V-shaped, with a little silvery semicircle in front, the hind part elongate-oval; ciliæ rather broad, with dark marks, hardly denticulated. Hind wings æneous-cinereous; ciliæ pale, with darker marks.

- i. ——— ? From Mr. Milne's collection.

45. PLUSIA SIMPLEX.

Ferrugineo-fuscescens; abdomen testaceum; alæ anticæ cinereo-fuscae, plaga discali nigro-fusca ferrugineo varia, linea discali arcuata argentea apice clavata et hamata, necnon gutta discali anticæ alteraque postica argenteis; posticæ testaceæ, fascia margineque nigro-fuscis, ciliis canis.

Plusia simplex, *Guen. Noct.* ii. 346, 1174.

- a—d. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.
 e—i. Trenton Falls, New York. Presented by E. Doubleday, Esq.
 j. Orilla, West Canada. From Mr. Bush's collection.

46. PLUSIA OU.

Cinerea; abdomen pallidum; alæ anticæ fusco-cinereæ, fasciis variis undulatis obliquis nigricantibus, U guttaque discalibus argenteis; posticæ cinereo-cupreæ, margine obscuriore, ciliis pallidis.

Plusia Ou, *Guen. Noct.* ii. 96, 348, 1176.

- a, b. East Florida. Presented by E. Doubleday, Esq.
 c—e. Venezuela. From Mr. Dyson's collection.

47. PLUSIA OXYGRAMMA.

Cinerea ; thorax fusco fasciatus ; abdomen pallide cinereum ; alæ anticæ fusco nebulosæ, striga discali obliqua interlineata alba ; posticæ basi pallidiores.

Autographa Oxygramma (Noctua semigeometra, Plusia inscripta),
Geyer, Zutr. Samml. Exot. Schmett. 37, 385, f. 769, 770.

Plusia Oxygramma, Guen. Noct. ii. 350, 1181.

Georgia.

48. PLUSIA FALCIGERA?

Nigro-cinerea ; abdomen testaceo-cinereum ; alæ anticæ lineis duabus indistinctis interioribus transversis argenteis, linea submarginali nigra distincta angulosa, orbiculari et reniformi nigro marginatis, linea argentea arcuata biangulata, macula postica rufescente, guttis costalibus subapicalibus albis, lunulis marginalibus albidis ; posticæ pallide cinereæ, margine lato æneo-fusco.

Plusia falcigera? Kirby, Faun. Bor. Amer. iv. 308, 3. Alæ anticæ nebula magna fusca falculam argenteam includente, extus ramulum includente.

Nova Scotia.

Plusia rectangula? Kirby, Faun. Bor. Amer. iv. 306, 1. Alæ anticæ cinereæ, nigro nebulosæ, macula discali nivea rectangula subramosa.

Canada.

Dark gray, varied with black. Third joint of the palpi more than half the length of the second. Abdomen cinereous, with a testaceous tinge. Fore wings glossy, here and there slightly gilded, with two indistinct transverse undulating silvery lines near the base ; submarginal line distinct, black, zigzag ; orbicular and reniform spots with black borders, the former nearly round, the latter hardly excavated ; discal silvery line forming two right angles, curved at each end, the inner end forming a simple curve, the outer curve forming a complete ringlet, and extending a little beyond it ; a reddish hindward mark ; a few white dots towards the tip of the costa, and a row of marginal whitish lunules ; ciliæ alternately black and whitish. Hind wings pale cinereous, with broad æneous-

brown borders; ciliæ alternately dark brown and whitish. Length of the body 6 lines; of the wings 15 lines.

a, b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

c, d. Nova Scotia. From Lieut. Redman's collection.

49. PLUSIA FLAGELLUM.

Mas. *Ferrugineo-fusca; thoracis fasciculi purpurascente marginati; abdomen cinereum; alæ anticæ purpureo-fuscae, ex parte auratæ, fasciis subobsoletis, linea submarginali angulosa incompleta, lineis tribus transversis subauratis, linea discali argentea furcata, orbiculari indistincta, reniformi aureo marginata, linea marginali obscure fusca; posticæ cupreæ, ciliis albidis.*

Male. Ferruginous-brown. Third joint of the palpi a little more than half the length of the second. Lappets and tufts of the thorax and crests of the abdomen tipped with lilac. Abdomen cinereous. Fore wings purplish brown, partly gilded; bands almost obsolete, except the submarginal line, which is somewhat zigzag, and disappears towards the interior angle; three slightly gilded transverse lines, two interior and one exterior; discal mark forming a slightly curved silvery line, which is forked at the interior end, and encloses a less bright silvery streak; orbicular spot indistinct; reniform distinguished by its slightly gilded outline, and very much excavated on the exterior side; a dark brown marginal line; ciliæ interlined with paler brown. Hind wings cupreous, with whitish ciliæ. Length of the body $7\frac{1}{2}$ lines; of the wings 18 lines.

a—c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

d, e. North America. Presented by E. Doubleday, Esq.

f. ———?

50. PLUSIA INDIGNA.

Mas. *Ferrugineo-fusca; thorax subfasciatus; abdomen cinereum; alæ anticæ angustæ, purpureo-fuscae cupreo tinctæ, fasciis nigricantibus incompletis, linea submarginali postice obsoleta, orbiculari et reniformi nigricante marginatis, lineolis duabus transversis albidis, litura discali fuscescente subfusiformi argenteo marginata strigam pallidam includente; posticæ subcupreæ, basi cinereæ, ciliis albidis.*

Male. Ferruginous-brown. Third joint of the palpi nearly half the length of the second. Thorax slightly banded. Abdomen cinereous. Fore wings narrow, purplish brown, with a cupreous tinge; bands blackish, incomplete; submarginal line obsolete hindward; orbicular and reniform spots with blackish borders; orbicular small, almost round, with a dot in the middle; reniform narrow, excavated on the exterior side; two slight whitish transverse lines inside the discal mark, which is brownish, irregularly fusiform, encloses a paler streak, and has a slightly silvery border. Hind wings somewhat cupreous, cinereous towards the base; ciliæ whitish. Length of the body 6 lines; of the wings 14 lines.

a—c. Georgia. From Mr. Milne's collection.

Group 4.

Like the sixth European group.

51. *PLUSIA MORTUORUM.*

Nigricans; thorax albido varius, fasciculis ferrugineis; abdomen cinereum; alæ anticæ maculis basalibus et discalibus, fasciis duabus undulatis exterioribus lunulisque marginalibus argenteis; posticæ subcervinæ, margine lato nigricante, ciliis albido variis.

Plusia mortuorum, *Guen. Noct.* ii. 353, 1187.

a—e. Trenton Falls, New York. Presented by E. Doubleday, Esq.

f, g. Orilla, West Canada. From Mr. Bush's collection.

h. Canada. Presented by Dr. Barnston.

52. *PLUSIA AMPLA.*

Mas. Cinerea; alæ anticæ latæ, lituris costalibus nigris, plaga magna postica cupreo-fusca disco incisa et argenteo marginata, orbiculari pallido marginata; reniformi ex parte nigro marginata, margine exteriori subdenticulato subobliquo; posticæ pallide flavæ, margine lato nigro-fusco, ciliis albido strigatis. Fœm.—Obscurior, ferruginosa; alæ posticæ sordide testacæ, margine lato nigricante.

Male. Cinereous. Third joint of the palpi about half the length of the second. Fore wings broad, with some black costal marks, and with a large cupreous-brown patch on the interior

border, along which it is cinereous, and inclines to deep black in the disk, where it is notched, and has an interrupted silvery border; orbicular spot elliptical, oblique, indistinct, with a pale border; reniform partly bordered on each side with black; the usual discal mark indicated by the excavation before mentioned; exterior border very slightly denticulated and oblique. Hind wings pale yellow, with broad blackish brown borders; ciliæ with whitish streaks.

Female. — Thorax and fore wings much darker than those of the male, and with a ferruginous tinge; reniform spot more distinct and more completely bordered with black. Hind wings dingy testaceous, with broad blackish borders. Length of the body 6—8 lines; of the wings 15—18 lines.

a—c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

d. Orilla, West Canada. From Mr. Bush's collection.

53. PLUSIA QUADRIPLAGA.

Fœm. *Cinerea*; *thorax fasciis ferrugineis*; *abdomen ferrugineo cristatum*; *alæ anticæ subschistaceæ, nigro conspersæ, fasciis subobsoletis, linea submarginali fusca subangulosa intus diffusa, plaga apud marginem interiorem magna quadrata nigro-fusca argenteo marginata lituram argenteam Y formem includente, orbiculari obliqua oblonga indistincta albido marginata, reniformi albo nigroque marginata; posticæ nigro-fuscæ, fascia albida, ciliis albidis fusco notatis.*

Phalæna Iota? *Cram. Pap. Exot.* ii. 106, pl. 165, f. C.

Virginia.

Female. Nearly allied to *P. ampla*. Cinereous. Thorax with ferruginous bands. Abdomen a little paler than the thorax, with ferruginous crests. Fore wings somewhat slate-colour, minutely speckled with black; bands almost obsolete, except the submarginal line, which is brown, diffuse on its interior side and somewhat zig-zag; a large quadrate silvery-bordered dark brown patch on the interior margin, black in front, where it includes a silvery Y-shaped discal mark; orbicular spot with a whitish border, oblique, oblong, indistinct; reniform bordered with black, which is irregularly intersected by a white line. Hind wings blackish brown, with an

irregular and incomplete whitish band; cilia whitish, with dark brown marks. Length of the body $5\frac{1}{2}$ lines; of the wings 13 lines.

a. Fraw Islands, Arctic North America. From the Arctic Expedition of H.M.S Investigator.

54. PLUSIA SELECTA.

Cinerea; thorax nigro fasciatus; abdomen pallide cinereum, cristis nigris; alæ anticæ latæ, nigro conspersæ, fasciis exterioribus subobsoletis, interiore duplicata, linea submarginali nigra undulata postice obsoleta, lunulis marginalibus nigris, orbiculari et reniformi nigro marginatis, hac argenteo marginata, litura discali argentea subquadrata postice subexcavata; posticæ pallide cinereæ, margine lato nigricante, ciliis ex parte albidis.

Gray. Third joint of the palpi full half the length of the second. Thorax with slight black bands. Abdomen pale cinereous, with black crests. Fore wings broad, irregularly speckled with black; the black bands almost obsolete, except the interior double one; submarginal line black, undulating, obsolete hindward; a row of black marginal lunules; orbicular and reniform spots with black borders, the former irregularly oval, the latter with an incomplete silvery border; discal mark silvery, subquadrate, slightly excavated on the hind border. Hind wings pale cinereous, with broad blackish borders; ciliæ partly whitish. Length of the body 7 lines; of the wings 17 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

55. PLUSIA ALTICOLA.

Mas. *Ferrugineo-fusca, subtus cinerea; abdomen aurato-cinereum; alæ anticæ basi et extus ex maxima parte cinereis, lineis duplicatis subangulatis obscure fuscis, orbiculari et reniformi pallido atroque marginatis, litura discali argentea V formi, linea marginali nigra, ciliis latis; posticæ luteæ, margine lato nigricante.*

Male. Nearly allied to *P. divergens*. Ferruginous-brown, cinereous beneath. Third joint of the palpi about half the length of the second. Abdomen somewhat gilded-cinereous. Fore wings mostly cinereous towards the base and exteriorly; interior and exte-

rior lines double, dark brown, slightly angular; orbicular and reniform spots with pale and broader deep black borders, the former oblique, irregularly oval; marginal line black; discal mark silvery, oblique, irregularly V-shaped; ciliæ broad. Hind wings luteous, with broad blackish borders. Length of the body 5 lines; of the wings 12 lines.

a. Rocky Mountains. Presented by the late Earl of Derby.

56. PLUSIA SECEDENS.

Mas. *Cinereo-nigra*; abdomen *fuscescens-cinereum*; antennæ *subciliatæ, subtus rufescentes*; palpi *pilosi, articulo 3o brevi*; alæ *anticæ obscure fuscae, fasciis nigris indistinctis incompletis, linea submarginali maculari, orbiculari indistincta, reniformi argenteo submarginata, ciliis albo guttatis; posticæ luteæ, margine lato cupreo-fusco.*

Male. Black. Head and thorax with many cinereous hairs. Abdomen brownish cinereous. Palpi pilose; third joint short. Antennæ very minutely ciliated, reddish beneath. Fore wings dark brown, with indistinct and incomplete black bands; submarginal line macular; orbicular spot indistinct; reniform partly bordered with silvery white; the usual metallic discal mark obsolete; ciliæ with white dots. Hind wings luteous, with broad cupreous-brown borders. Length of the body $5\frac{1}{2}$ lines; of the wings 13 lines.

This species has some affinities with *Hadena*, and may perhaps form a new genus.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

West Indies.

Group 1.

Like the first European group.

57. PLUSIA ILLUSTRATA.

Fœm. *Viridescens-cinerea*; palporum articulus 3us *brevis*; alæ *anticæ lineis transversis pallidioribus, macula postica trigona aurata; posticæ pallidæ, subangulatæ, basi subhyalinæ, margine nigricante, ciliis albidis.*

Plusia illustrata, Guen. Noct. ii. 328, 1137.

Haïti.

58. *PLUSIA EGENA*.

Var. ? *Rufescente-cinerea*; *thorax antice croceus*; *abdomen cinereum*; *alæ anticæ acuminatæ, subauratæ fusco nebulosæ, linea exteriori obliqua et macularum marginibus obscurioribus, plagis duabus obscure fuscis, una postica subquadrata argenteo antice marginata, altera submarginali lineam submarginalem nigram angulatam includente; posticæ æneo-fuscæ, basi ciliisque pallidis.*

Plusia egena, *Guen. Noct. ii. 328, 1138.*

Var. ? Pale fawn-colour. Fore wings almost hooked; discal spots and some transverse zigzag lines brownish; orbicular spot round; reniform spot elongated, hardly concave on the interior side, much excavated on the exterior side; two large gilded patches; one extending from the interior border to the disk, where it is bounded by a short curved silvery line; exterior border almost angular in the middle. Hind wings slightly æneous, indistinctly angular; base and ciliæ paler. Length of the body $5\frac{1}{2}$ lines; of the wings 15 lines.

- a. St. Domingo. From Mr. Tweedie's collection.
- b. Rio Janeiro. From Mr. Stevens' collection.
- c. Bogotà. From Mr. Stevens' collection.
- d—g. Venezuela. From Mr. Dyson's collection.
- h. ——— ? Presented by J. F. Stephens, Esq.
- i. ——— ?

Group 2.

Like the fifth European group.

59. *PLUSIA INCLUDENS*.

Fœm. *Cinerea*; *alæ anticæ angustæ, cupreæ, ex parte auratæ, fasciis obliquis cinereis, lineis duabus basalibus argenteis, maculis duabus discalibus argenteis micantibus subrotundis, una integra, altera aperta guttamque argenteam includente, lineis transversis undulatis obliquis, margine exteriori per-obliquo; posticæ cupreo-fuscæ, ciliis albidis.*

Female. Cinereous. Fore wings narrow, cupreous, gilded, here and there with cinereous oblique irregular bands, with two transverse silvery lines near the base; two brilliant silvery almost

round discal spots, one entire, the other open in front and enclosing a less brilliant spot; transverse lines undulating, oblique; exterior border very oblique; ciliæ rather deep. Hind wings cupreous-brown, with whitish ciliæ. Length of the body 6 lines; of the wings 15 lines.

a—c. St. Domingo. From Mr. Tweedie's collection.

60. *PLUSIA CALCEOLARIS*.

Mas. *Fusca; palporum articulus 3us brevis; abdomen cinereum, apice fuscescens; alæ anticæ cupreo-fuscae, ex parte auratæ, apice productæ, guttis nonnullis costalibus subapicalibus pallidis, plaga elongata obscure fusca intus acuta extus reniformem attingente, reniformi argenteo subnotata, nigro biguttata, orbiculari subobsoleta, litura discali argentea longa intus dilatata extus furcata, margine exteriori perobliquo; posticæ cinereæ, basi ciliisque pallidioribus.*

Male. Brown. Third joint of the palpi not more than one-third of the length of the second. Abdomen cinereous, brownish at the tip. Fore wings cupreous-brown, mostly gilded, with some pale minute costal subapical dots; an elongated discal dark brown patch, nearly surrounding the silvery mark, acute at its inner end, and extending at its other end to the reniform spot; the latter with very slight silvery marks on its hind side, and containing on its exterior side two black dots; orbicular spot almost obsolete; discal mark long, very brilliant, dilated towards one end, and forked at the other; tips rather attenuated; exterior border very oblique. Hind wings cinereous, paler towards the base, and with pale ciliæ. Length of the body 6 lines; of the wings 15 lines.

a. St. Domingo. From Mr. Tweedie's collection.

61. *PLUSIA HUMILIS*.

Fœm. *Cinerea; palporum articulus 3us 2i dimidio vix brevior; thorax fuscescens fasciatus; alæ anticæ sat latæ, nigro conspersæ, lituris basalibus strigisque submarginalibus nigris, lineis transversis pallidis fusco marginatis, linea submarginali angulosa, orbiculari et reniformi pallido marginatis, hac longa angusta, litura discali argentea sat magna Y formi, lineis duabus marginalibus albidis; posticæ cinereæ, ciliis albidis.*

Female. Cinereous. Third joint of the palpi nearly half the length of the second. Thorax with pale brownish bands. Fore

wings moderately broad, with black speckles, with some black basal marks, and with some submarginal black streaks; transverse lines pale, with brown borders; submarginal line somewhat zigzag, bounding the black streaks; orbicular and reniform spots with pale borders, the former long and narrow; discal mark silvery-white, rather large, Y-shaped; two whitish marginal lines. Hind wings cinereous, with whitish ciliæ. Length of the body 4 lines; of the wings 10 lines.

a. St. Domingo. From Mr. Tweedie's collection.

South America.

Group 1.

Like the first European group.

62. PLUSIA FEISTHAMELII.

P. egena simillima; palporum articulus 3us sat longus; alæ anticæ carneo-roseæ, margine interiore recto vix dentato, umbra submarginali cinerea vaga nitente lineam submarginalem indistinctam includente; posticæ cinereæ.

Plusia Feisthamelii, Guen. Noct. ii. 329, 1139.

Cayenne.

Group 2.

Like the fifth European group.

63. PLUSIA NU.

Cinerascens; abdomen sat breve; alæ subtus lutescente tinctæ; anticæ sericeæ subdentatæ, spatiis medio et submarginali obscurioribus magisque micantibus fascia obliqua pallida divisis, lineis transversis undulatis duplicatis subparallelis non bene determinatis, litura basali angulata nigra, litura discali flavescente-argentea Y formi; posticæ fumoso-ochraceæ linea vaga margineque nigricantibus, ciliis pallidis nigricante strigatis.

Plusia Nu, Guen. Noct. ii. 347, 1175.

Monte Video.

64. *PLUSIA HAMIFERA*.

Cervina; thorax lineis transversis canis; abdomen fusco-cinereum; alæ anticæ glaucescentes, fasciis duabus latis indeterminatis auratis cupreo variis, litura discali pallide aurata micante e U guttam auream includente guttaque subrotunda, orbiculari et reniformi indistinctis, lineis duabus basalibus subauratis, lunulis marginalibus fuscis, gutta media ciliari nigra; posticæ æneo-fuscæ, ciliis canis fusco guttatis.

Fawn-colour. Lappets and crests of the thorax with hoary borders. Abdomen brownish cinereous. Fore wings glaucous, with two broad very irregular brightly gilded bands, which are varied with cupreous; first band containing the discal mark, which is pale gilded and brilliant, and consists of two parts, the one U-shaped and containing a gilded dot, the other nearly round, orbicular and reniform spots indistinct; a row of brown marginal lunules, and some corresponding pale brown lunules on the ciliæ, which have a black dot in the middle; two pale gilded transverse lines near the base. Hind wings æneous-brown, with hoary ciliæ, on which there is a row of elongated brown dots. Length of the body 6—7 lines; of the wings 14—16 lines.

a—c. Santarem. From Mr. Bates' collection.

d. Venezuela. From Mr. Dyson's collection.

65. *PLUSIA ADMONENS*.

Fœm. Ferrugineo-cinerea; thorax antice ochraceus; abdomen sordide testaceum; alæ anticæ subpurpurascens, extus subauratæ, maculis anticis plagaque postica magna subquadrata ex parte argenteo marginata cupreo-fuscis, linea exteriori undulata nigricante, linea submarginali fusca undulata, lineis duabus basalibus pallidis, reniformi ex parte argenteo marginata, figura discali e gutta elliptica lituraque ?-formi argenteis; posticæ pallidæ, lunulis ciliaribus fuscis, margine lato æneo-fusco.

Female. Ferruginous-cinereous. Third joint of the palpi nearly half the length of the second. Thorax orange in front. Abdomen dingy testaceous. Fore wings somewhat purplish, slightly gilded exteriorly, with some cupreous-brown spots in front, and with a large hindward subquadrate patch of the same hue with its border partly silvery; a transverse undulating blackish line extends along the outer side of the patch, and at half the distance

between this line and the exterior border there is an indistinct brown undulating submarginal line; two pale basal lines; orbicular spot indistinct; reniform with its border partly silvery; discal figures bright silvery, composed of an elliptical dot and of a ?-shaped mark; ciliæ with brown lunules. Hind wings pale, with a broad æneous-brown border; cilia pale. Length of the body $5\frac{1}{2}$ lines; of the wings 12 lines.

Brazil. In Mr. Saunders' collection.

66. PLUSIA PARALLELA.

Fœm. *Cinerea*; palpi nigricantes; abdomen pallidum; alæ anticæ purpureo-cupreæ, lineis transversis nigricantibus duplicatis undulatis maculaque reniformi indistinctis, orbiculari subobsoleta, litura discali argentea obliqua longa angusta lineari acuminata intus cuprea strigamque albidam includente, strigis nonnullis discalibus nigris, lunulis marginalibus attenuatis nigricantibus; posticæ subcupreæ, ciliis albidis.

Female. Cinereous. Palpi blackish. Abdomen pale. Fore wings purplish cupreous; transverse lines blackish, double, undulating, indistinct; reniform spot also indistinct; orbicular almost obsolete; discal mark silvery, oblique, long, narrow, linear, acuminate at each end, with a cupreous inner border which contains a whitish streak; the wing about this streak is darker than elsewhere, and contains some black streaks; a row of blackish much attenuated marginal lunules. Hind wings somewhat cupreous, with whitish ciliæ. Length of the body 7 lines; of the wings 16 lines.

a. Venezuela. From Mr. Dyson's collection.

67. PLUSIA DETRUSA.

Mas. *Cinerea*; thorax fusco fasciatus; alæ anticæ strigis basali-bus et submarginaiibus nigris, fascia latissima media lineisque duabus fuscis, linea submarginali undulata, orbiculari et reniformi pallido marginatis, illa magna oblonga, litura discali argentea postice guttam fuscam includente; posticæ lurido-cinereæ, margine lato fusco.

Male. Cinereous. Third joint of the palpi nearly half the length of the second. Thorax with brown bands. Fore wings with a black curved mark and two black streaks near the base, and with some black submarginal streaks; a very broad middle brown

band, with a brown line on each side; submarginal line undulating, interrupted by the black streaks; orbicular and reniform spots with pale borders, the former large and oblong; discal mark silvery, irregularly Y-shaped, the fore part very open, the tail part dilated and containing a brown dot. Hind wings lurid-cinereous, with broad brown borders. Length of the body 6 lines; of the wings 14 lines.

a. Monte Video. Presented by C. Darwin, Esq.

68. *PLUSIA FUMIFERA*.

Mas. *Fuscescente-cinerea; abdomen cinereum; alæ anticæ nitentes, lineis duabus undulatis interioribus, fascia media lata extus pallido bimarginata lineaque submarginali angulosa, fuscis, orbiculari et reniformi indistinctis, litura discali e annulis duabus argenteis, una subrotunda aperta, altera oblonga parva; posticæ lurido-cinereæ, margine lato fusco, ciliis pallidis fusco notatis.*

Male. Brownish cinereous. Third joint of the palpi full half the length of the second. Abdomen cinereous. Fore wings shining, with two interior undulating lines, a broad middle band, and the zigzag submarginal line brown; middle band with a double pale exterior border; orbicular and reniform spots indistinct; discal mark consisting of two silvery ringlets, the one nearly round, open in front, the other oblong, much smaller. Hind wings lurid-cinereous, with a broad brown border; ciliæ pale, with brown marks. Length of the body 5 lines; of the wings 13 lines.

a. Chili. From Mr. Cuming's collection.

69. *PLUSIA? VENATRIX*.

Fusca; abdomen testaceum, vitta fusca; alæ anticæ angustæ, nigro conspersæ, guttis discalibus maculaque apicali argenteis, fascia tenui arcuata exteriore ferruginosa, margine exteriore perobliquo; posticæ fascia lata testacea.

Phalæna-Noctua venatrix, Cram. Pap. Exot. iv. 244, pl. 400, f. K. Surinam.

Group 3.

Like the sixth European group.

70. *PLUSIA CERTA*.

Fœm. *Cinerea*; *alæ anticæ purpurascente tinctæ, ex parte fuscæ, fascia exteriori fusca duplicata undulata, linea submarginali nigra angulata, orbiculari et reniformi pallido marginatis, illa obliqua oblonga, litura discali argentea U subformi; posticæ luteæ, margine angusto cupreo-fusco.*

Female. Cinereous. Third joint of the palpi more than half the length of the second. Fore wings with a purplish tinge, partly brown in the disk and towards the base; bands indistinct, except the exterior one, which is brown, double and undulating, and the submarginal one, which is black and zigzag; orbicular and reniform spots with pale borders, the former oblique, oblong; discal mark silvery, irregularly U-shaped. Hind wings luteous, with narrow cupreous-brown borders. Length of the body 5 lines; of the wings 12 lines.

a. Chili. From Mr. Cuming's collection.

Africa.

Group 1.

Like the first European group.

71. *PLUSIA FRACTA*.

Mas. *Cinerea*; *thorax antice cervinus, cristis altissimis; alæ anticæ plaga postica subquadrata spatioque submarginali micantibus cupreis aut nigris, illa antice albido lineata, lineis interiore et marginali pallidis, linea exteriori rosea fusco marginata, submarginali indistincta, macula orbiculari magna subrotunda pallido marginata; posticæ æneo-fuscæ, basi ciliisque pallidis.*

Male. Cinereous. Third joint of the palpi about half the length of the second. Thorax somewhat fawn-colour in front, its crests and those of the abdomen very high. Fore wings with a large hindward subquadrate patch, and the space about the exterior border shining, and shifting from blackish to cupreous, according

to the light which they reflect; the patch with a whitish line along its fore side, and slightly intersected on its exterior side by a pale rosy brown-bordered exterior line; orbicular spot large, almost round, with a pale border; reniform almost obsolete; interior line and marginal line pale; submarginal line indistinct. Hind wings æneous-brown, pale towards the base, and with pale ciliæ. Length of the body 6 lines; of the wings 16 lines.

Port Natal.

a. Congo. Presented by Sir J. Richardson.

Group 2.

Like the fifth European group.

72. *PLUSIA LIMBIRENA*.

Cinereo fusca; thorax fasciis duabus nigris; abdomen cervino-cinereum; alæ anticæ fuscæ, aureo et rufescente variæ, disco ex parte guttisque marginalibus nigricantibus, U guttaque oblonga discalibus punctisque apud lineam submarginalem argenteis, macula reniformi apud marginem anteriorem medium punctisque anterioribus roseis; posticæ pallide cinereæ, margine æneo-fusco.

Plusia limbirena, Guen. Noct. ii. 350, 1179.

Abyssinia. Cape. Madagascar.

a, b. South Africa. Presented by Dr. A. Smith.

c. St. Helena? From Mr. Milne's collection.

d. ———? From Mr. Milne's collection.

73. *PLUSIA ANGULUM*.

Cervino-fusca; abdomen cinereum; alæ anticæ fasciis obscurioribus indistinctis, apud marginem anteriorem subauratæ, linea interiore et macularum marginibus subargenteis, macula orbiculari elongata, litura discali argentea elongata obliqua antice furcata; posticæ æneo-cinereæ.

Plusia angulum, Guen. Noct. ii. 350, 1180.

a. Cape. From M. Dregé's collection.

74. *PLUSIA INDICATOR*.

Mas. *Cinerea*; *caput et thorax fusco varia*; *alæ anticæ disco lineaque submarginali æneo-fuscis, lituris basalibus strigisque tribus submarginalibus nigris, lineis duabus (una basali, altera exteriore subundulata) et reniformis margine ex parte argenteis, litura discali argentea obliqua Y formi guttam includente, lunulis marginalibus fuscis; posticæ æneo-fuscæ, basi ciliisque albidis.*

Male. Cinereous. Head and thorax varied with pale brown. Third joint of the palpi full half the length of the second. Fore wings with some black marks at the base, mostly æneous-brown in the disk, and with an æneous-brown submarginal line, which joins three black streaks; two transverse silvery lines, one near the base, the other exterior and slightly undulating; border of the reniform spot partly silvery; discal silvery mark oblique, somewhat Y-shaped, the open part with a whitish disk; two marginal lines, the outer one darker than the other, and composed of much attenuated lunules. Hind wings pale æneous-brown, whitish towards the base, and with whitish ciliæ. Length of the body 5 lines; of the wings 12 lines.

â. Congo. Presented by Sir J. Richardson.

75. *PLUSIA ACUTA*.

Fœm. *Fuscescente-cervina, subtus pallida; thorax antice pallidior nigroque interrupte fasciatus, tegularum et cristarum marginibus canis; alæ anticæ auratæ, nigro subconspersæ, basi costa margineque exteriore roseo-cinereis, lineis duabus argenteis, una interiore strigaeque rosea conjunctis, altera exteriore, orbiculari et reniformi indistinctis, litura argentea micante e maculis duabus, una lanceolata, altera subpyriformi; posticæ subæneæ, ciliis albidis.*

Female. Brownish fawn-colour, pale beneath. Thorax paler, and with an interrupted black band in front; lappets and crests with slightly hoary borders. Abdomen pale. Fore wings slightly and minutely speckled with black, mostly gilded, mostly pale cinereous, with a slightly rosy tinge at the base and along the costa, and along the exterior border, and with a marginal spot of the same hue near the interior angle; two transverse silvery lines, the one interior and accompanied by a rosy streak, the other exterior; orbicular and reniform spots indistinct; discal mark composed of two brilliant silvery spots, the one lanceolate, the other subpyriform.

Hind wings somewhat æneous, with whitish ciliæ. Length of the body 7 lines; of the wings 17 lines.

a. Congo. Presented by Sir J. Richardson.

76. *PLUSIA SPOLIATA*.

Fœm. *Cervina; thorax tegulis cristisque cano marginatis, abdomen pallide cinereum; alæ anticæ subauratæ, fascia lata intermedia obliqua fusca albido marginata maculam reniformem et strigam lanceolatam albido marginatas includente, orbiculari obliqua elongata albido marginata, lineis duabus submarginalibus angulosis lineaque marginali albidis; posticæ æneofuscæ, basi cinereæ.*

Female. Fawn-colour. Third joint of the palpi nearly half the length of the second. Lappets and tufts of the thorax slightly tipped with hoary. Abdomen pale cinereous. Fore wings slightly gilded towards the base and about the exterior border; intermediate part occupied by a broad oblique brown band, which has whitish borders, and includes the whitish bordered reniform spot and discal lanceolate streak; orbicular spot also with a whitish border, oblique, elongated; two whitish angulose submarginal lines; marginal line whitish. Hind wings æneous-brown, cinereous towards the base. Length of the body $5\frac{1}{2}$ lines; of the wings 14 lines.

a. Congo. Presented by Sir J. Richardson.

77. *PLUSIA VERTICILLATA*.

Cana; thorax fusco fasciatus; abdomen albidum, apice subtus nigrum; alæ anticæ pallide purpurascentes, aureo variæ, lineis transversis obliquis maculisque duabus discalibus argenteis; posticæ fusco marginatæ, ciliis albidis.

Plusia verticillata, Guen. Noct. ii. 344, 1168.

Var. P *Male and female.* Cinereous. Head and the lappets and tufts of the thorax somewhat luteous. Fore wings rosy-cinereous, mostly gilded or cupreous-ferruginous; two silvery transverse basal lines; a double transverse undulating exterior ferruginous line; submarginal line, and the orbicular and reniform spots indistinct or incomplete; an almost marginal ferruginous line, which is interrupted and macular hindward; interior angle very distinct, with black ciliæ; the two discal marks brilliant silvery, approximate, the one U-shaped, with a silvery disk, the other oval. *Male.*—Ab-

domen with black apical tufts. Discal marks of the fore wings slightly gilded. Length of the body 6 lines; of the wings 14 lines.

- a. Silhet. From the Rev. J. Stainforth's collection.
- b. North India. From Mr. Stevens' collection.
- c. North India. From Mr. James' collection.
- d. North India. Presented by J. G. Children, Esq.
- e. China. Presented by G. T. Laye, Esq.
- f. Hindostan. From Archdeacon Clerk's collection.
- g, h. Java. From the East India Company's collection.
- i. Port Natal. From Mr. Plant's collection.
- j, k. Australia. From Mr. Lambert's collection.
- l, m. ———? From Mr. Milne's collection.
- n. ———? Presented by E. Doubleday, Esq.
- o—r. Ceylon. Presented by R. Templeton, Esq.

Var. Hind silvery mark very small and narrow.

Australia. From Mr. Lambert's collection.

—————?

78. PLUSIA PATEFACTA.

Cinereo-fusca; thorax fasciis duabus nigricantibus; abdomen cinereum; alæ anticæ cinereæ, ex parte æneo-fuscæ, fasciis angulosis pallide cinereis ex parte nigro marginatis, interiore et exteriore duplicatis, strigis submarginalibus lunulisque marginalibus nigris, lineis duabus marginalibus albidis, orbiculari et reniformi argenteo submarginatis, illa obliqua valde elongata, litura argentea U subformi; posticæ cinereæ, margine latissimo æneo-fusco, ciliis albidis.

Cinereous-brown. Third joint of the palpi short. Thorax with two blackish bands. Abdomen cinereous. Fore wings cinereous, partly æneous-brown; bands zigzag, pale cinereous, partly bordered with black; interior and exterior bands double, almost obsolete in front; submarginal band bordering some black streaks; two whitish lines and a row of attenuated black lunules along the margin; orbicular and reniform with slight incomplete silvery borders; orbicular oblique, much elongated; reniform much excavated on its exterior side; an irregularly U-shaped silvery mark, joining the interior band and the orbicular spot. Hind wings cinereous, with very broad æneous-brown borders; ciliæ whitish. Length of the body 6 lines; of the wings 15 lines.

- a. Interior of South Africa. Presented by the late Earl of Derby.
 b, c. South Africa. Presented by Dr. A. Smith.
 d, e. Cape. From M. Dregé's collection.
 f. Teneriffe.

79. *PLUSIA INCONCLUSA*.

Mas. *Cinerea*; thorax nigro vittatus; alæ anticæ nitentes, vir metallicæ, macularum marginibus, lineis transversis undulatis strigæque discali nigris, striga anteriore, lituris submarginalibus guttisque apud reniformem albis, linea submarginali fusca vaga, lunulis marginalibus nigris, costa apicem versus albo notata; posticæ nigro-æneæ, basi albæ, ciliis ex parte albis.

Male. Cinereous. Palpi stout: third joint full half the length of the second. Thorax and abdomen with high crests, the former with black bands. Fore wings shining, hardly with metallic lustre, with interior and exterior transverse undulating black lines; a black longitudinal discal streak, along the fore side of which there is a much less white streak; orbicular and reniform spots with black borders, the outline of the latter also marked by some white dots on the exterior side, the former almost round; submarginal line brown, very irregular, accompanied by some whitish marks; a row of black marginal lunules; apical half of the costa with white marks. Hind wings dark æneous, white towards the base; ciliæ white. Length of the body 6 lines; of the wings 15 lines.

This species differs much from most of the *Plusiæ*, and may perhaps form a new genus.

Port Natal. In Mr. Saunders' collection.

Madagascar.

Group 1.

Like the third European group.

80. *PLUSIA FLORINA*.

P. auriferæ simillima; thorax antice-rufescens; alæ anticæ costæ rufescente, fascia aurata micante marginem interiorem attingente guttam semilunatam includente, maculis obsoletis.

Plusia Florina, Guen. Noct. ii. 336, 1154.

Plusia aurifera? Boisdu. Lep. Mad. 95.

Madagascar.

Group 2.

Like the fifth European group.

81. *PLUSIA ANARGYRA*.

Alæ anticæ violaceo-cinereæ, apud marginis exterioris medium æneo sericeæ, lineis transversis lituraque discali albo-flavescentibus; posticæ nigricante-cinereæ, basi pallidiores.

Plusia anargyra, *Guen. Noct.* ii. 351, 1183.

Madagascar.

Asia.

Group 1.

Like the first European group.

82. *PLUSIA AGRAMMA*.

Fusco-cinerea; abdomen pallide cinereum; alæ anticæ nitentes, vitta arcuata fasciæque lata abbreviata submarginali auratis; posticæ cinereæ, basi pallidiores.

Plusia Agramma, *Guen. Noct.* ii. 327, 1136.

a, b. Ceylon. Presented by R. Templeton, Esq.

c. Java. From the East India Company's collection.

Group 2.

Like the fifth European group.

83. *PLUSIA SIGNATA*.

Obscure cinerea; alæ anticæ lineis transversis undulatis nigro-fuscis, guttis basalibus nigris, guttis duabus discalibus argenteis maculaque marginali aurea; posticæ cinereæ, marginibus latis fuscis. Var. β.—Alæ anticæ aureo varicæ, guttis basalibus argenteis; posticæ pallide cinereæ, basi albidæ.

Noctua signata, *Fabr. Ent. Syst.* iii. 2, 81, 234. *Enc. Meth.* 314.

Plusia signata, *Guen. Noct.* ii. 345, 1171.

Hindustan. Isle Bourbon?

a. Java. From the East India Company's collection.

84. *PLUSIA ALBOSTRIATA*?

Fusca; palpi cinerei; thorax cinereo fasciatus, antice luteus; abdomen cinereum; alæ anticæ auratæ ex parte purpureo-glaucescens fasciis lineisque fuscis, striga submarginali nigricante, orbiculari indistincta, reniformi ex parte argenteo marginata, maculis duabus discalibus elongatis lineaque interiore obliqua argenteis, macula apud angulum interiorem lutea; posticæ cinereæ, fusciscente marginatæ.

Plusia albostriata? Bremer und Grey, Beitr. zur Schmett. Fauna des Nordlichen China's, 18, 97. Alæ anticæ cinereo fuscoque variæ, striga albida mediana inscripta; posticæ cinereæ.

This species is closely allied to *P. biloba*, and may be only a variety of it.

Brown. Palpi cinereous; third joint nearly half the length of the second. Thorax with gray bands, luteous in front. Abdomen cinereous. Fore wings mostly gilded, partly glaucous, with a purplish tinge; bands and transverse lines brown, much as usual; a submarginal blackish streak; orbicular spot indistinct; reniform with its border partly silvery; discal mark silvery, brilliant, consisting of two large subfusiform spots, the interior one joining an oblique silvery line; a luteous spot by the interior angle. Hind wings cinereous, with brownish borders. Length of the body 7 lines; of the wings 16 lines.

a. North China. From Mr. Fortune's collection.

85. *PLUSIA FURCIFERA*.

Mas. *Obscure cervina*; abdomen cinereum, cervino cristatum; alæ anticæ aurato-cervinæ, plaga discali nigricante, lineis transversis pallidis angulosis duplicatis indistinctis, striga brevi discali furcata annuloque argenteis; orbiculari obliqua oblonga argenteo marginata; reniformi indistincta; margine exteriore vix denticulato; posticæ cinereæ, margine lato aeneo.

Male. Dark fawn-colour. Abdomen cinereous, with high fawn-coloured crests. Fore wings gilded fawn-colour, with a large blackish patch in the disk; transverse lines pale, zigzag, double, indistinct; a short discal silvery streak, forked at one end, near which there is a silvery ringlet, and the latter is contiguous to the orbicular spot, which is oblique and oblong, and also distinguished

by its silvery outline; reniform spot indistinct; exterior border hardly denticulated; ciliæ short. Hind wings cinereous, with broad æneous borders. Length of the body 6 lines; of the wings 14 lines.

a, b. North India. From Mr. James' collection.

86. *PLUSIA CILIARIS.*

Mas. *Cinereo-fusca; thorax fasciis pallidioribus; abdomen cinereum; alæ anticæ æneo-fuscae, fasciis tribus undulatis duplicatis albidis, linea submarginali pallida undulata, lineis submarginalibus exterioribus albidis, lunulis marginalibus nigris, striga discali pallida lanceolata, orbiculari et reniformi argenteo submarginatis, orbiculari obliqua elongata, ciliis albidis fusco interlineatis; posticæ pallide cinereæ, margine lato subæneo.*

Male. Cinereous-brown. Thorax with paler bands. Abdomen cinereous. Fore wings æneous-brown, with three undulating double whitish bands; first and second interior; third exterior; submarginal line pale, undulating, irregular; two whitish lines between it and the exterior border, on which there is a row of elongated black lunules; ciliæ broad, pale; a lanceolate pale discal streak, which, like the orbicular and reniform spots, has a slightly silvery border; orbicular spot oblique, much elongated; veins partly pale. Hind wings pale cinereous, with broad slightly æneous borders; ciliæ whitish, slightly interlined with brown, as are also those of the fore wings. Length of the body $5\frac{1}{2}$ lines; of the wings 13 lines.

a. Nepal. Presented by W. W. Saunders' Esq.

b, c. North India. From Mr. Stevens' collection.

87. *PLUSIA NIGRISIGNA.*

Fœm. *Subcervino-cinerea; alæ anticæ pallide cinereæ, ex parte auratæ aut cupreo-ferrugineæ, lineis transversis argenteis, striga basali guttaque discali nigris, linea submarginali fusca angulosa, reniformi ex parte nigra argenteo submarginata, lituris discalibus argenteis, una U formi, altera fusiformi parva, ciliis latis fusco strigatis; posticæ cinereæ, margine lato cupreo, ciliis albidis.*

Female. Cinereous, slightly fawn-colour. Third joint of the palpi about half the length of the second. Fore wings pale cine-

reous, here and there slightly gilded or cupreous-ferruginous; a silvery transverse line near the base, with a black streak along the hind part of its inner side; a second silvery line joining the inner discal mark, near which it is abruptly bent inward, and includes a black dot in its curve; third silvery line exterior, zigzag hindward; submarginal line brown, zigzag; reniform spot partly black, with a slightly silvery outline; discal marks silvery; one U-shaped, very open; the other fusiform, small; ciliæ broad, with brown streaks. Hind wings cinereous, a brown line near the broad cupreous borders; ciliæ whitish. Length of the body $6\frac{1}{2}$ lines; of the wings 15 lines.

a. North India. Presented by Gen. Hearsay.

88. PLUSIA EXTRAHENS.

Fœm. *Cinerea*; *thorax fasciis duabus anticis interruptis nigris; alæ anticæ nigro subconspersæ, ex parte auratæ, litura basali lineaque submarginali angulosa nigris, linea interiore pallida undulata fusco marginata, exteriore indistincta, orbiculari subobsoleta, guttis duabus discalibus albis vix argenteis, una longi-ovata, altera U formi, ciliis denticulatis albido strigatis, litura postica nigra; posticæ cinereæ, margine lato æneo, ciliis albidis.*

Female. Cinereous. Palpi rather pilose; third joint not less than half the length of the second. Thorax with two slender incomplete black bands in front. Fore wings here and there slightly gilded, thinly and minutely speckled with black, and with some black marks at the base; interior line pale, undulating, and with a brown border on each side; exterior line more indistinct; submarginal line black, zigzag, partly composed of black streaks; orbicular spot almost obsolete; discal mark composed of two white hardly silvery dots, one elongate-oval, the other U-shaped; a little whitish discal streak; ciliæ denticulate, with whitish streaks, and with a black mark on the hind part. Hind wings cinereous, with broad æneous borders; ciliæ whitish. Length of the body 7 lines; of the wings 16 lines.

a. North India. Presented by Gen. Hearsay.

89. *PLUSIA SIGNIFICANS*.

Mas. *Cervina*; *thorax nigro fasciatus*; *abdomen longum, pallidum*; *alæ anticæ subauratæ fusco subnebulosæ, lineis transversis pallidis undulatis fusco marginatis, linea submarginali angulosa, lituris basalibus strigisque submarginalibus nigris, orbiculari et reniformi pallido marginatis, illa obliqua oblonga, litura U subformi annuloque elliptico discalibus argenteis, lineis marginalibus duabus pallidis unaque nigra, ciliis pallidis fusco notatis; posticæ cinereæ, margine lato æneofusco, ciliis albidis fusco notatis.*

Male. Fawn-colour. Third joint full half the length of the second. Thorax with black bands. Abdomen long, very pale. Fore wings slightly clouded with brown, very slightly gilded; transverse lines pale, undulating, bordered with dark brown; submarginal line zigzag; two black marks at the base, and some submarginal black streaks; orbicular and reniform spots with pale borders, the former oblique and oblong; discal mark silvery, forming an irregular U, which is connected with a small elliptical ringlet; two pale and one black marginal lines; ciliæ pale, with brown almost semicircular marks. Hind wings pale cinereous, with broad æneous-brown borders; ciliæ whitish, with brown marks. Length of the body 6 lines; of the wings 14 lines.

a. Punjaub. Presented by Gen. Hearsay.

90. *PLUSIA OBTUSISIGNA*.

Mas. *Cinerea*; *thorax fusco fasciatus*; *alæ anticæ lituris basalibus guttisque marginalibus nigris, lineis transversis subroseis aureo-fusco marginatis, linea submarginali aureo-fusca undulata, orbiculari et reniformi subobsoletis striga lata discali obliqua aurata nigro-fusca, litura interiore angulata alba; posticæ cinereæ, margine lato æneo.*

Male. Cinereous. Third joint of the palpi full half the length of the second. Thorax with brown bands. Fore wings with two black marks at the base, and with black marginal dots; transverse lines pale rose-colour, with gilded brown borders; submarginal line gilded brown, undulating; orbicular and reniform spots almost obsolete; a broad gilded oblique dark brown discal streak, bordered with an angular white mark on its interior side. Hind wings cinereous, with broad æneous borders. Length of the body $4\frac{1}{2}$ lines; of the wings $11\frac{1}{2}$ lines.

a. Ceylon. Presented by R. Templeton, Esq.

91. *PLUSIA NIGRILUNA*.

Fœm. *Obscure fusca; caput subtus album, lateribus posticis luteis; palporum articuli apice albo punctati; antennæ basi albæ; abdomen cinereum; alæ anticæ purpureo tinctæ, aureo variæ, lineis transversis undulatis liturisque costalibus pallide purpurascentibus, maculis oblongis marginalibus nigris, orbiculari et reniformi indistinctis, maculis duabus discalibus ovatis argenteis micantibus; posticæ fuscæ, basi pallidæ, ciliis pallidis fusco notatis.*

Female. Dark brown. Head white beneath, luteous on each side behind. Palpi stout, with a white point at the tip of each joint; third joint nearly half the length of the second. Antennæ white at the base. Thorax and abdomen with high crests, the latter cinereous. Fore wings mostly tinged with purple, with some brightly gilded marks; interior and exterior lines undulating, pale purplish, as are also some costal marks; some oblong black marginal spots; orbicular and reniform spots indistinct; discal mark consisting of two brilliant silvery slightly oval spots. Hind wings brown, pale at the base, and with pale brown-dotted ciliæ. Length of the body 5 lines; of the wings 13 lines.

a Ceylon. Presented by R. Templeton, Esq.

92. *PLUSIA INTEGRÆ*.

Mas. *Ferruginea; vertex et thorax anticus lutei; abdomen cinereum; alæ anticæ fuscæ, auratæ, linea exteriori obliqua nigricante, linea submarginali undulata nigricante, guttis duabus discalibus argenteis micantibus, una ovata parva altera longi-ovata; posticæ cinereæ, margine lato æneo.*

Male. Ferruginous. Vertex of the head and fore part of the thorax luteous. Third joint of the palpi less than half the length of the second. Abdomen cinereous. Fore wings brown, gilded; marks indistinct, except an oblique blackish exterior line; submarginal line blackish, undulating; discal mark formed of two bright silvery spots, the one oval, the other larger and elongate-oval. Hind wings cinereous, with broad æneous borders. Length of the body 5 lines; of the wings 12 lines.

Hindustan. In Mr. Saunders' collection.

93. *PLUSIA TETRAGONA*.

Fœm. *Cinerea*; *alæ anticæ fascia postica obliqua abbreviata latissima nigro-fusca, striga anteriore longi-fusiformi argentea, linea exteriori fusca, orbiculari et reniformi subobsoletis, linea marginali albida; posticæ pallide cinereæ, linea discali margineque fusciscentibus.*

Female. Cinereous. Third joint of the palpi full half the length of the second. Fore wings with an oblique very broad blackish brown band, which extends from the interior border to the disk, and is there obliquely truncated; it is bordered with black, and in front is partly bordered by, and partly contains, an elongated fusiform silvery streak; its exterior border is continued to the costa, and there is a brown line at about half the distance between it and the exterior border of the wing; orbicular and reniform spots almost obsolete; a whitish marginal line. Hind wings pale cinereous; a discal line and the border brownish. Length of the body 5 lines; of the wings 13 lines.

Hindustan. In Mr. Saunders' collection.

Australia.

Group 1.

Like the fifth European group.

94. *PLUSIA ARGENTIFERA*.

Cinerea; alæ anticæ cupreo aureoque variæ, lineis duabus transversis basalibus lituraque biangulata apud maculam reniformem argenteis, maculis duabus discalibus argenteis micantibus, una vix U formi, altera subtrigona; posticæ æneo-cinereæ.

Plusia argentifera, *Guen. Noct. ii. 352, 1186.*

a. Sydney. From Mr. Lambert's collection.

b. Moreton Bay. Presented by — Gibbons, Esq.

c. Moreton Bay. From Capt. Parry's collection.

d. Moreton Bay. From Mr. Stevens' collection.

e. Australia. Presented by the Entomological Club.

f, g. Adelaide. From Mr. Stevens' collection.

h. Tasmania. From Mr. A. J. Smith's collection.

95. *PLUSIA SECUNDARIA*.

Pallide cinereo-fusca; thorax fascia angusta albida; abdomen pallide cinereum; alæ albido ciliatæ; anticæ cinereæ, auratæ, extus pallide subpurpurascens, lineis duabus basalibus transversis interruptis, striga magna discali intus excavata, gutta anteriore minima, striga arcuata contigua guttaque postica argenteis, linea submarginali fusca interrupta strigam emittente; posticæ æneo-fuscæ, basi pallidæ.

Allied to *P. rogationis*, but distinct. Pale cinereous-brown. Thorax with a slender whitish band. Abdomen pale cinereous. Wings with whitish ciliæ. Fore wings cinereous, mostly gilded; exterior part pale, with a lilac tinge; two interrupted transverse silvery lines near the base; a large silvery discal streak, much excavated on the middle of the fore side, and thus forming two lobes; a very minute silvery dot in front of the excavation, and near it a curved silvery streak partly bordering the reniform spot; another silvery dot on the interior border; submarginal line brown, interrupted, and emitting a streak towards the disk in the middle, in front of which it is straight, whereas that of *P. rogationis* is angular. Hind wings æneous-brown, pale towards the base. Length of the body 5 lines; of the wings 12 lines.

- a, b.* Adelaide. Presented by the Entomological Club.
- c.* Swan River. Presented by Sir J. Richardson.
- d.* Australia. Presented by J. Hunter, Esq.
- e.* Sydney. From Mr. Lambert's collection.
- f.* Australia.
- g.* ———?

New Zealand.

Group 1.

Like the fifth European group.

96. *PLUSIA ERIOSOMA*.

Purpureo-fusca; caput et thorax anticus cervina; abdomen fusco-cinereum; alæ anticæ aureo variæ, plaga discali nigra, litura hamata guttaque fusiformi discalibus argenteis; posticæ cupreo-fuscæ, margine latissimo subobscuriore, ciliis pallidis.

Plusia eriosoma, Doubleday, Dieffenbach's *New Zealand*, i. 285, 114.

- a—e.* New Zealand. Presented by Col. Bolton.
f, g. New Zealand. Presented by the Rev. W. Colenso.
h—k. New Zealand. Presented by Dr. Sinclair.
l, m. New Zealand. From Capt. Parry's collection.
n; o. New Zealand. Presented by Capt. James C. Ross.

Country unknown.

97. *PLUSIA GEMMIFERA.*

Nigra; caput album; thorax et alæ anticæ coloribus micantibus iridescentibus metallicis ornatae; alæ anticæ apud marginem exteriorem obscure cupreo-rufæ nigro guttatæ, fuscis tribus indeterminatis albis, fascia 3a abbreviata guttisque nonnullis albis contiguis, maculis discalibus obsoletis, guttis submarginalibus auratis; posticæ albæ, cupreo marginatæ.

Black. Thorax and fore wings adorned with brilliant iridescent metallic colours. Head white. Third joint of the palpi lanceolate, hardly one-third of the length of the second. Abdomen with black crests. Fore wings dark cupreous-red and dotted with black towards the exterior border, adorned with three very irregular white bands; third band not extending to half the breadth from the costa, where it is accompanied by some white dots; the discal spots obsolete; a row of submarginal gilded dots. Hind wings white, with cupreous borders, which are broadest towards the tips. Wings beneath with a blackish discal dot on each; hind wings with an incomplete blackish band. Length of the body 6 lines; of the wings 14 lines.

This species recedes far from most of the others of this genus, and seems to be allied to the *Hadenidæ*.

a. ———? Presented by E. Doubleday, Esq.

Genus 4. *THYRIA.*

Corpus robustum. Proboscis breviuscula. Palpi validi, oblique ascendentes; articulus 3us 2i dimidio multo brevior. Antennæ simplices, validæ, corporis dimidio fere breviores. Thorax squamosus. Abdomen longiusculum, apice attenuatum, alas posticas sat superans. Pedes validi, pilosissimi; tibiæ posticæ calcaribus longissimis. Alæ anticæ maculis auratis vel argenteis, apud costam rectæ, apice acutæ, marginæ exteriore sæpissime denticulato; posticæ luteæ, margine obscuro.

Thyria, Guen. Noct. ii. 357.

Argyrosticta, p., Hübn. Verz. Schmett. 253.

Body stout. Proboscis rather short. Palpi stout, obliquely ascending; third joint much less than half the length of the second. Antennæ simple, stout, hardly half the length of the body. Thorax squamose. Abdomen rather long, somewhat attenuated towards the tip, extending nearly one-third of its length beyond the hind wings. Legs stout, very pilose; hind tibiæ with very long spurs. Fore wings moderately broad, with metallic spots, straight in front, acute at the tips, generally denticulated and notched along the exterior border. Hind wings luteous, with dark borders.

1. THYRIA BELLINITA.

Alæ anticæ violaceo-fuscæ, cinereo squamosæ, maculis discalibus pallide auratis, lineis mediis remotis e lunulis nigris, linea submarginali e lunulis cinereis, lunulis marginalibus nigris; posticæ luteæ, margine violaceo-fusco.

Thyria Bellinita, Guen. Noct. ii. 357, 1197.

Pernambuco.

2. THYRIA AMCENITA.

Ferruginea; thorax nigro bivittatus; alæ anticæ nigro guttatæ, maculis duabus subcostalibus, duabus discalibus, una subapicali, guttisque submarginalibus auratis; posticæ luteæ, angulatæ, margine latissimo fusco.

Phalæna-Noctua Amcænita, Cram. Pap. Exot. iv. 47, pl. 312, f. D.

Thyria Amcænita, Guen. Noct. ii. 357, 1198.

Argyrosticta Amcænita, Hübn. Verz. Schmett. 253, 2503.

Surinam.

3. THYRIA DITISSIMA.

Mas. Rufescens; caput et thorax fasciis interruptis fuscis; abdomen luteum, apice fuscum et fasciculatum; alæ anticæ ferrugineæ, lineis fasciisque variis rufescentibus, fascia exteriore lunulas nigras includente, linea basali transversa albida, maculis plurimis discalibus et marginalibus argenteis micantibus, margine exteriore denticulato et excavato; posticæ luteæ margine latissimo cupreo, ciliis pallidis.

Male. Reddish. Head and thorax with interrupted brown bands. Abdomen luteous, brown and tufted at the tip. Fore wings

ferruginous, with various reddish lines and bands; exterior band including a row of black lunules; a transverse whitish basal line; some minute silvery costal marks, and several bright silvery spots in the disk and along the exterior border; largest spot apical; exterior border denticulate and excavated. Hind wings luteous, with very broad cupreous-brown borders and pale ciliæ. Length of the body 6 lines; of the wings 12 lines.

a. Parà. From Mr. Stevens' collection.

Genus 5. BASILODES.

Mas. Corpus robustum. Caput fasciculo porrecto. Proboscis brevis. Antennæ simplices, breves, validæ, cylindricæ. Palpi breves, porrecti, crassi; articulus 2us obtusus; 3us brevissimus. Thorax quadratus, tegulis abbreviatis, fasciculo denso intermedio. Abdomen læve, carinatum. Tibiæ robustæ. Alæ crassæ, latiusculæ; anticæ metallicæ, apud costam subconvexæ, apice acutæ, margine exteriori denticulato.

Basilodes, *Guen. Noct. ii. 358.*

Male. Body stout. Head with a porrect tuft in front. Proboscis short. Palpi short, porrect, stout; second joint obtuse; third very short. Antennæ short, stout, simple, cylindrical. Thorax quadrate; the lappets short; a thick intermediate tuft. Abdomen smooth, keeled, extending a little beyond the hind wings. Legs moderately long; tibiæ stout. Wings dense, rather broad. Fore wings metallic, slightly convex in front, acute at the tips; exterior margin denticulate, slightly convex in the middle.

1. BASILODES PEPITA.

Mas. *Pallide flavescens; thorax tegulis cristaque fusco marginatis; alæ anticæ aureo squamosæ, margine interiori cinerascete, macularum marginibus lineisque fuscis, linea interiori valde sinuata, exteriori obliqua, submarginali vaga denticulata, orbiculari et reniformi subrotundis subæqualibus; posticæ cinereæ.*

Basilodes Pepita, *Guen. Noct. ii. 358, 1199.*

Florida.

Genus 6. PLUSIODONTA.

Corpus gracile. Caput fasciculo antico porrecto. Proboscis brevis. Palpi longi, validi, porrecti, pilosi, caput longe superantes; articulus 2us linearis, compressus, longissimus. Antennæ corporis dimidio non longiores. Thorax brevis, cristatus. Abdomen alas posticas perparum superans. Pedes longiusculi, validi; tibiæ posticæ calcaribus longissimis. Alæ mediocriter latæ; anticæ apud costam rectæ, apice vix acutæ, margine exteriori perparum obliquo, interiore dentato. *Mas.*—Antennæ pectinatae.

Plusiodonta, *Guen. Noct. ii.* 359.

Body slender. Head with a porrect tuft in front. Proboscis short. Palpi long, stout, porrect, pilose, extending far beyond the head; third joint linear, compressed, very long. Antennæ not more than half the length of the body. Thorax short, crested. Abdomen extending very little beyond the hind wings. Legs rather long and stout; hind tibiæ with very long spurs. Wings moderately broad. Fore wings straight in front, hardly acute at the tips, very slightly oblique along the exterior border; a stout villose tooth on the interior border before the middle. *Male.*—Antennæ moderately pectinated. Type, *P. compressipalpis*. This genus approaches very closely to some groups of *Pyrallites*.

West Indies.

1. PLUSIODONTA THOMÆ.

Alæ anticæ fuscæ, violaceo et ferrugineo variæ, maculis duabus basalibus lineaque exteriori auratis, apud marginem exteriorem obscure fuscæ, plaga purpurascente-cinerea, linea marginali ferruginea squamis purpurascente-albis marginata, angulo interiore dentique ferrugineis; posticæ cinereæ.

Plusiodonta Thomæ, *Guen. Noct. ii.* 360.

Isle St. Thomas.

Asia.

2. PLUSIODONTA CHALSYTOIDES.

Ferruginosa, subtus albida; capitis thoracisque antice latera lutea; abdomen cinereum; alæ anticæ cinereo variæ, fasciis duabus interruptis antice attenuatis maculaque discali aureis; posticæ cinereæ.

Plusiodonta chalsytoides, *Guen. Noct.* ii. 360, 1201.

Hindostan. Java.

3. *PLUSIODONTA COMPRESSIPALPIS*.

Flavescens; *alæ anticæ pallide subcervinæ, basi lineisque duabus mediis flexis postice approximatis purpurascentibus, lineis duabus interioribus undulatis, annulo postico exteriori difformi lineaque submarginali auratis fusco ex parte marginatis, reniformis margine lineaque submarginali albidis, strigis marginalibus fuscis; posticæ æneæ, ciliis cinereis.*

Plusiodonta compressipalpis, *Guen. Noct.* ii. 359, 1200.

Hindostan.

Genus 7. *CHLIARA*.

Corpus robustum, dense pilosum non cristatum. Proboscis longiuscula. Palpi validi, pilosi, ascendentes; articulus 2us subtus dense fasciculatus; 3us linearis, 2i triente non brevior. Antennæ corporis dimidio paullo longiores. Abdomen subcompressum, subcarinatum, alas posticas plus triente superans. Pedes validi, dense fasciculati; tibiæ posticæ calcaribus longis. Alæ longæ, sat angustæ, lituris metallicis, apud costam rectæ, apice angulatæ, marginis exterioris dimidio postico perobliquo. *Mas.* — Antennæ serratæ.

Autographa, p., *Hübner. Verz. Schmett.* 251.

Body stout, thickly pilose. Proboscis rather long. Palpi stout, pilose, ascending, almost vertical; second joint thickly tufted beneath; third joint linear, about one-third of the length of the second. Antennæ a little more than half the length of the body. Thorax and abdomen not crested. Abdomen slightly compressed and keeled, extending for more than one-third of its length beyond the hind wings. Legs stout, thickly tufted, especially the hind pair; hind tibiæ with long spurs. Fore wings long, rather narrow, with metallic marks, straight in front, angular at the tips, extremely oblique along the hind part of the exterior border. *Male.* — Antennæ distinctly serrated.

1. CHLIARA IMPERIALIS.

Mas. *Testacea*; caput et thorax anticus coccinea; alæ anticæ auratæ, ochraceo notatæ, plagis duabus magnis lineisque duabus exterioribus angulosis rufo-coccineis, lituris basalibus discalibus et submarginalibus argenteis, guttis submarginalibus nigris; posticæ rufescente tinctæ.

Plusia imperialis, MSS.

Male. Testaceous. Head and fore part of the thorax crimson. Fore wings gilded, with orange speckles, and with two large reddish crimson patches, one on the interior border, and extending in a band across the wing and along part of the costa, the other along the fore part of the interior border; two exterior transverse zigzag lines of the same hue, the inner one accompanied by a pale line; various bright silvery marks at the base, in the disk, near the tips, and along the exterior border, where there is also a row of black dots; discal spots larger than the others, in a cluster, and partly enclosing some gilded marks. Hind wings with a reddish tinge, except towards the base. Length of the body 12 lines; of the wings 22 lines.

a. Brazil. From M. Becker's collection.

2. CHLIARA CRESUS.

Cinerea; abdomen albidum fasciis roseis; alæ anticæ luteæ, ferrugineo variæ, guttis nonnullis lunula lineaque submarginali argenteis; posticæ albidæ, margine interiore lato fasciæque tenui submarginali pallide roseis.

Phalæna Cresus, Cram. Pap. Exot. ii. 72, pl. 142, f. C.

Autographa Cræsa, Hübn. Sam. Exot. Schmett. ii. Lep. iv. Noct. iii. *Semigeometra*, i. *Plusiæ*, A. Inscriptæ, iii. f. 1—4; Verz. Schmett. 251, 2491.

Berbice.

Genus 8. CONCANA.

Corpus sat robustum. Proboscis mediocriter longa. Palpi ascendentes; articulus 3us linearis, 2i dimidio multo longior. Antennæ graciles, simplices, corporis dimidio multo longiores. Thorax non fasciculatus. Abdomen non cristatum, alas posticas vix superans. Pedes graciles; tibiæ posticæ calcaribus longis. Alæ anticæ angustæ, apud costam rectæ, apice rotundatæ, marginis exterioris dimidio postico perobliquo; posticæ semihyalinæ.

Body moderately stout. Proboscis moderately long. Palpi vertical; third joint linear, much more than half the length of the second. Antennæ slender, simple, much more than half the length of the body. Thorax not tufted. Abdomen not crested, hardly extending beyond the hind wings. Legs slender; hind tibiæ with long spurs. Fore wings narrow, straight in front, rounded at the tips, slightly convex along the exterior border, whose hind part is very oblique. Hind wings semihyaline.

1. CONCANA MUNDISSIMA.

Mas. *Canæ*; *caput et thorax anticus testacea*; *abdomen subtestaceum*; *pedes nigro notati*; *alæ anticæ æneæ, sericeæ, basi margine exteriori plagaque costali albidis, lineis transversis interruptis lunulisque marginalibus nigris, orbiculari et reniformi subobsoletis*; *posticæ albæ, semihyalinæ, margine subæneo, lituris duabus apud angulum interiorem nigris albisque.*

Male. Hoary. Head, palpi and fore part of the thorax testaceous. Abdomen slightly testaceous. Legs with black marks. Fore wings glossy, æneous, whitish at the base and along the exterior border, and with a whitish patch on the costa at two-thirds of the length; various interrupted transverse black lines, and a row of minute black marginal lunules; orbicular and reniform spots almost obsolete. Hind wings white, semihyaline, with slightly æneous borders, and with two black and white marks by the interior angle. Length of the body 5 lines; of the wings 13 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.

ADDENDA, p. 884.

Genus CALYPTIS.

Palporum articulus 3us 2i dimidio vix longior. Abdomen alas posticas non superans. Tibiæ posticæ calcaribus longis.

CALYPTIS ITER.

a. Parà. From Mr. Bates' collection.

b. Rio Janeiro. From Mr. Stevens' collection.

Fam. 5. CALPIDÆ.

Statura mediocris. Corpus sæpissime robustum, non cristatum. Proboscis mediocris. Palpi sæpissime longi; articulus 2us robustus, pilosus; 3us brevis, nonnunquam longus. Antennæ acuminatæ. Abdomen alas posticas vix superans. Tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ. *Mas.*—Antennæ dimidio basali sæpe pectinato.

Calpidi, *Guen. Ann. Soc. Ent. Fr.* x. 69; *Boisd.*; *Dup.*

Calpidæ, *Guen. Noct.* ii. 361.

Size moderate. Body generally stout, not crested. Proboscis moderately long. Palpi generally long, ascending; second joint robust, pilose; third short, occasionally long. Antennæ acuminated. Abdomen hardly extending beyond the hind wings. Legs generally stout; hind tibiæ with long spurs. Fore wings moderately broad; interior border excavated, and more or less dentate.

A. Abdomen non cæruleum.

A. Alæ anticæ plus minusve metallicæ.

a. Corpus crassum.

a. Abdomen alas posticas dimidio non superans.

i. Alæ anticæ margine interiore excavato.

1. ORESIA, *Guen.*

ii. Alæ anticæ margine interiore non excavato.

* Alæ anticæ longæ.

** Alæ anticæ non longæ. - 6. CLITIS, *Walk.*

b. Abdomen alas posticas dimidio superans.

4. HAPYGLIA, *Guen.*

B. Corpus gracile.

a. Palpi ascendentes. - - - - 8. DEVA, *Walk.*

b. Palpi porrecti. - - - - 9. GADERA, *Walk.*

B. Alæ anticæ non metallicæ.

A. Alæ anticæ non longæ.

a. Alæ anticæ margine exteriori integro.

i. Palpi longi.

b. Alæ anticæ margine exteriori denticulato.

3. CALPE, *Treit.*

c. Alæ anticæ longæ. - - - - 5. DIAMUNA, *Walk.*

* Palporum articulus 3us brevissimus.

2. GONODONTA, *Hübner.*

** Palporum articulus 3us longus. 10. DEVENA, *Walk.*

ii. Palpi breves. - - - - 11. ECREGMA, *Walk.*

B. Abdomen cæruleum. - - - - 7. FERENTA, *Walk.*

Genus 1. ORÆSIA.

Corpus robustum. Proboscis mediocriter longa. Palpi longi, pilosi, porrecti, crassi; articulus 3us brevissimus. Antennæ corporis dimidio non longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice acuminatæ, margine exteriori angulato antice non obliquo, interiori excavato et dentato. *Mas*.—Antennæ dimidio basali pectinato.

Oræsia, *Guen. Noct.* ii. 362.

Body stout. Proboscis moderately long. Palpi long, pilose, porrect, very stout; third joint very short. Antennæ not more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with long spurs. Fore wings moderately broad, straight in front, acuminate at the tips; exterior border angular, its fore part not oblique; interior border excavated and dentated. *Male*.—Antennæ slightly pectinated to beyond half the length.

West Indies.

1. ORÆSIA EXCITANS.

Mas et fœm. *Purpureo-fusca, nonnunquam pallida; caput et thorax anticus ochracea; thorax nigro fasciatus; abdomen albidum; alæ anticæ reniformis margine lineisque transversis obliquis undulatis nigricantibus, fascia interiore aurata abbreviata, exteriori antice interrupta dentem versus exteriorem dilatata, gutta discali nigricante; posticæ albæ, æneo marginatæ.*

Male and female. Purplish brown, dark or pale. Head and fore part of the thorax orange. Thorax with a transverse blackish line. Abdomen whitish. Fore wings with the transverse oblique undulating lines and the border of the reniform spot blackish; the two usual gilded bands; the inner one on the interior tooth shortened in front; the outer one dilated towards the exterior tooth, much interrupted in front; discal dot blackish. Hind wings white, with æneous borders. Length of the body 6 lines; of the wings 14 lines.

a, b. St. Domingo. From Mr. Stevens' collection.

c—e. St. Domingo. From Mr. Tweedie's collection.

2. ORÆSIA HONESTA.

Mas. *Rufo-cinerea*; *antennæ simplices*; *caput et thorax anticus ochracea*; *thorax fusco fasciatus*; *abdomen æneo-canum*; *alæ anticæ lineis transversis undulatis indistinctis obliquis nigricantibus, lineis exteriore et submarginali sut distinctis cano marginatis, fascia interiore aurata antice subobsoleta, exteriore interrupta postice dilatata, reniformi fusco marginata*; *posticæ albæ, æneo late marginatæ*.

Male. Reddish cinereous. Antennæ simple. Head and fore part of the thorax orange; a slender brown intermediate band. Abdomen hoary, with a slight æneous tinge. Fore wings with indistinct undulating oblique transverse blackish lines; exterior line and submarginal line more distinct, each of them bordered by a hoary line, and connected with a gilded band; the interior band rests on the interior tooth, and is almost obsolete in front; the exterior band is interrupted in the middle and dilated towards the exterior tooth; reniform spot distinguished by its brown outline. Hind wings white, with broad æneous borders. Length of the body 7 lines; of the wings 16 lines.

This species may be distinguished from *O. emarginata* by the more decided angle on the exterior border of the fore wings, and by the fore side of this angle, which is not oblique.

a. St. Domingo. From Mr. Tweedie's collection.

b—d. ———? From Mr. Milne's collection.

Africa.

3. ORÆSIA PROVOCANS.

Mas. *Purpureo-fusca*; *capitis latera et thoracis margo anticus ochracea*; *abdomen æneo-fuscum*; *alæ anticæ purpureo-rufæ, lineis obliquis undulatis transversis nigricantibus, fasciis duabus latis auratis, linea submarginali subrecta et striga cinerea antica connexis, striga subapicali argentea*; *posticæ cupreo-fuscae, ciliis pallidis*. Fœm. — *Alæ anticæ minus auratæ, strigis duabus argenteis, una discali, altera submarginali*.

Purplish brown. Sides of the vertex and fore border of the thorax orange. Abdomen æneous-brown. Fore wings purplish red, with oblique undulating transverse indistinct blackish lines;

two broad gilded bands, the first extending from the interior angle to the disk, and there joining the second, which extends between the submarginal line and the exterior border, and is dilated hindward; submarginal line nearly straight, almost obsolete hindward, bordered in front on the inner side by a cinereous streak; a minute silvery subapical streak; apical angle more hooked than that of *O. emarginata*. Hind wings cupreous-brown, with pale ciliæ. *Female*.—Like the male, but with the gilded hue less prevalent; subapical streak more distinct; a bright silvery streak in the disk, and another along the fore part of the exterior border. Length of the body 8 lines; of the wings 16—18 lines.

a—c. Port Natal. From Mr. Plant's collection.

d. Port Natal. From M. Gueinzus' collection.

e. Silhet. From Mr. Stainforth's collection.

f, g. ———? From Mr. Milne's collection.

Asia.

4. ORÆSIA EMARGINATA.

Ferruginea; caput et thorax anticus lutea; abdomen cinereum; alæ anticæ lineis duabus obliquis posticis subroseis, antice subroseæ ferrugineo variæ, vitta intermedia flexa nigro-cinerea lineis duabus albis conjuncta, margine exteriori subroseo antice ferrugineo-strigato, fascia submarginali postice dilatata cuprea; posticæ æneo-cinereæ, margine lato æneo-fusco; ciliis albidis.

Noctua emarginata, *Fabr. Ent. Syst.* iii. 2, 240.

Oræsia emarginata, *Guen. Noct.* ii. 363, 1203.

a, b. Silhet. From the Rev. J. Stainforth's collection.

c—e. North India. From Mr. Stevens' collection.

f. Ceylon. Presented by R. Templeton, Esq.

g. Punjaub. Presented by General Hearsay.

5. ORÆSIA RECTISTRIA.

Ferruginea; caput et thorax anticus lutea; antennæ maris pectinatæ; abdomen et alæ posticæ testaceo-albida; alæ anticæ cupreo-subroseæ, lineis obliquis undulatis ferrugineis, striga interiore punctoque discali nigris, fascia submarginali cuprea postice dilatata intus nigro et ex parte albo marginata.

Oræsia rectistria, *Guen. Noct.* ii. 363, 1204.

a. Silhet. From Mr. Stainforth's collection.

6. ORÆSIA ALLICIENS.

Mas. *Pallide cervina, subtus albida; antennæ pectinatæ; caput et thorax anticus ochracea; abdomen albedo-testaceum; alæ anticæ maculæ reniformis margine lineisque transversis obliquis undulatis obscurioribus, lineis duabus exterioribus rectis magis conspicuis strigam albidam includentibus, fascia submarginali strigaeque marginali auratis, puncto discali nigricante; posticæ testaceo-albidæ, æneo submarginatæ.*

Male. Pale fawn-colour, whitish beneath. Antennæ pectinated. Head and fore part of the thorax orange. Abdomen whitish testaceous. Fore wings with the border of the reniform spot, and the transverse oblique undulating lines somewhat darker; two darker and more distinct straight lines, which are near together, but slightly diverging from near the tip of the wing to the inner side of the exterior tooth; these lines contain a whitish streak, and beyond them lies the gilded band, which is broad hindward, narrow in front, where it is accompanied by a gilded streak along the fore side of the exterior border; a blackish discal point. Hind wings testaceous-white, with somewhat æneous borders. Length of the body 6—7 lines of the wings 14—16 lines.

a. North India. Presented by General Hearsay.

b. China. Presented by G. T. Lay, Esq.

c, d. ———? From Mr. Milne's collection.

7. ORÆSIA TENTANS.

Fœm. *Purpureo-fusca, subtus pallida; caput et thorax anticus ochracea; thorax nigro fasciatus; abdomen cinereum; alæ anticæ purpurascens, lineis transversis obliquis undulatis ferrugineis indistinctis, fascia aurata interiore brevi tenui, exteriore antice attenuata nigro marginata postice dilatata strigam latam discum versus emittente, strigu marginali aurata, vitta cinerea punctoque nigro discalibus; posticæ æneo-fuscæ, basi cinereæ, ciliis albidis angustis.*

Female. Purplish brown, pale beneath. Head and fore part of the thorax orange, which hue is bounded on the thorax by a transverse blackish line. Abdomen cinereous. Fore wings purplish; transverse oblique undulating lines ferruginous, indistinct; interior gilded band short and slight; exterior one attenuated and with a black border in front, where it is accompanied by a

gilded marginal streak, dilated hindward, and emitting a broad inward streak, which joins a cinereous discal stripe; the latter has a black point on its fore border. Hind wings æneous-brown, cinereous towards the base; ciliæ whitish, narrow. Length of the body 7 lines; of the wings 16 lines.

a. North India. From Mr. Stevens' collection.

Country unknown.

8. ORÆSIA METALLESCENS.

O. emarginatæ affinis; alæ anticæ violaceo-cinereæ, nitentes, lineis transversis distinctis, fasciis duabus auratis; posticæ cinereæ.

Oræsia metallescens, *Guen. Noct.* ii. 364, 1205.

Gonus 2. GONODONTA.

Corpus crassum, pilosum. Proboscis mediocriter longa. Palpi pilosi, ascendentes, crassi, subarcuati; articulus 3us brevissimus. Antennæ validæ, simplices, corporis dimidio multo longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice acuminatæ, margine exteriore integro subconvexo mediocriter obliquo, interiore excavato et dentato.

Gonodonta, p., et Athyana, *Hübner. Verz. Schmett.* 263.

Gonodonta, *Guen. Noct.* ii. 364.

Body stout, pilose. Proboscis moderately long. Palpi pilose, ascending, very stout, slightly curved; third joint very short. Antennæ stout, simple, much more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with long spurs. Fore wings moderately broad, straight in front, acuminate at the tips; exterior border entire, slightly convex, moderately oblique; interior border excavated and dentated.

Mexico.

1. GONODONTA TERETIMACULA.

Fusca; caput album; thorax antice fulvus; abdomen nigrum, apice albo-flavum; alæ anticæ aurato-flavæ, plaga apud dentem interiorem spatioque marginali purpurascens-ferrugineis, illa lineam angulosam includente, linea submarginali subrecta; posticæ nigricantes, macula discali indeterminata fulva.

Gonodonta teretimacula, Guen. Noct. ii. 367, 1211.

Mexico. Colombia. Guiana. Guadeloupe.

2. GONODONTA CORRECTA.

Fœm. Nigro-fusca, subtus testacea; caput ferrugineum, albo varium; palpi ferruginei, intus albi; thorax chalybeo conspersus; abdomen subtus luteum; alæ anticæ spadiceæ, apud margines purpureo tinctæ, fasciis duabus, una basali, altera exteriore angulosa lineaque aurata conjunctis, macula ocellari apud angulum interiorem aureo nigroque varia cyaneo conspersa, strigis posticis cyaneis, guttis submarginalibus ferrugineis, puncto discali nigro; posticæ luteæ, margine lato nigro-cupreo.

Female. Blackish brown, testaceous beneath. Head pale ferruginous, and marked with white. Palpi ferruginous, white on the inner side. Thorax sprinkled with chalybeous. Abdomen luteous beneath. Fore wings chestnut-colour, tinged with purple hindward and along the exterior border; the latter hue interrupted by two bands, the one near the base, the other exterior and zigzag, and accompanied by an incomplete pale gilded line, the two expanded by the interior angle into an ocellated mark, which is varied with black and gilt, and sprinkled with blue; some blue streaks along the interior border, and a row of ferruginous submarginal dots; a minute black discal dot, as is usual in this genus. Hind wings luteous, with broad cupreous black borders; ciliæ luteous. Length of the body $8\frac{1}{2}$ lines; of the wings 20 lines.

a. Mexico. Presented by E. Doubleday, Esq.

West Indies.

A. Abdomen non luteum.

A. Caput album.

A. Alæ anticæ cæruleo variæ.

a. Alæ anticæ luteo notatæ. - - nitidimacula, *Guen.*b. Alæ anticæ non luteo notatæ. - - Clotilda, *Stoll.*B. Alæ anticæ non cæruleo variæ. - - Soror, *Cram.*B. Caput non album. - - - - - bidens, *Geyer.*

B. Abdomen luteum.

A. Palpi albi. - - - - - Nutrix, *Cram.*B. Palpi non albi. - - - - - Sicheas, *Cram.*

3. GONODONTA NITIDIMACULA.

Rufo-ferruginea, subtus albida; caput album; palpi intus et apice albi; thorax cyaneo conspersus; abdomen fusco-cervinum; alæ anticæ spadiceo-rufescentes, cyaneo conspersæ basi ferruginæ, fascia interiore pallide cervina extus angulosa ferrugineoque marginata, macula discali punctum nigrum includente lituramque apud angulum interiorem subluteis, fascia exterior ferruginea lineam cyaneam includente albidoque extus ex parte marginata, margine exterior purpurascete; posticæ nigro-cupreæ, plaga elongata discali lutea, ciliis pallidis.

Gonodonta nitidimacula, *Guen. Noct. ii. 368, 1213.*

a, b. Isle St. Thomas. Presented by Dr. Hornbeck.

4. GONODONTA SOROR.

Nigro-rubra, subtus alba; caput palpique apice alba; abdomen nigro-cupreum; alæ anticæ ferruginæ, plaga elongata; postica obscuriore, linea exterior angulosa lutescente, ciliis cinereis; posticæ nigro-cupreæ, plaga transversa discali lutea.

Gonodonta Soror, *Guen. Noct. ii. 368, 1215.*Phalæna Soror, *Cram. Pap. Exot. iii. 150, pl. 276, f. B.*

Surinam.

a, b. St. Domingo. From Mr. Tweedie's collection.

c. Villa Nova. From Mr. Bates' collection.

d. ———? From Mr. Milne's collection.

5. GONODONTA BIDENS.

Mas. *Cervina*; *alæ anticæ ferruginosæ nigro variæ, triente fere basali cervina, quadrante apicali roseo, macula apud angulum posticum alba*; *posticæ flavæ, nigro latissime marginatæ, guttis marginalibus flavis.*

Gonodonta bidens (*Noctua semigeometra, Meropis festiva*), Geyer, *Zutr. Samml. Exot. Schmett.* 24, 348, f. 695, 696. Guen. *Noct.* ii. 369, 1216.

Cuba.

6. GONODONTA CLOTILDA.

Ochraceo-ferruginea, subtus albida; *caput palpique apice albida*; *abdomen nigro-cinereum*; *alæ anticæ apud marginem obscuriores, lineolis costalibus unaque postica cæruleo-albis, dente apud marginem anteriorem ochraceo, ciliis canescentibus*; *posticæ nigricantes, plaga transversa discali lutea, ciliis canis.*

Phalæna-Noctua Clotilda, Stoll. *Cram. Pap. Exot.* v. 153, pl. 34, f. 4. Guen. *Noct.* ii. 369, 1217.

Surinam. Berbice.

a. Villa Nova. From Mr. Bates' collection.

b. Ega. From Mr. Bates' collection.

7. GONODONTA NUTRIX.

Albido-fuscescens, subtus alba; *palpi albi*; *abdomen luteum*; *alæ anticæ spadiceæ, apud marginem anteriorem purpurascens fusco variæ, linea exteriore obliqua angulosa testacea cyaneo submarginata, costa flavo-alba basi fusca*; *posticæ luteæ cupreo late marginatæ, ciliis testaceis.*

Phalæna-Noctua Nutrix, Cram. *Pap. Exot.* iv. 46, pl. 312, f. B; v. 92, pl. 18, f. 8.

Gonodonta Nutrix, Hübn. *Verz. Schmett.* 263, 2589. Guen. *Noct.* ii. 370, 1220.

Surinam. Cayenne. Haïti.

a. Jamaica.

b. ——— ? From Mr. Milne's collection.

8. GONODONTA SICHEAS.

Cervina, subtus testacea; palpi subtus ochracei; thorax iridescens; abdomen luteum; alæ anticæ nigro-cupreæ, extus fusco-cupreæ, basi ferrugineo-cervinæ linea obliqua albido-rosea, fasciis duabus exterioribus angustis ferrugineis, lineis duabus exterioribus guttularibus nigricantibus, costa pallide subrosea; posticæ luteæ, nigro-cupreo latissime marginatæ.

Phalæna-Noctua Sicheas, *Cram. Pap. Exot.* ii. 86, pl. 150, f. E.

Gonodonta Sicheas, *Hübner. Verz. Schmett.* 263, 2588. *Guen. Noct.* ii. 372, 1225.

a, b. St. Domingo. From Mr. Tweedie's collection.

c. Brazil. From Mr. Argent's collection.

d—f. Venezuela. From Mr. Dyson's collection.

g. Brazil. From Mr. Stevens' collection.

h. Villa Nova. From Mr. Bates' collection.

i. Santarem. From Mr. Bates' collection.

South America.

A. Abdomen non luteum.

A. Caput non album aut flavescens.

A. Alæ anticæ angulo postico non luteo.

a. Alæ posticæ non luteo notatæ.

i. Alæ anticæ linea alba. - - separans, *Walk.*

ii. Alæ anticæ linea nulla alba. - - æqualis, *Walk.*

b. Alæ posticæ luteo binotatæ. - - Uxoria, *Cram.*

c. Alæ posticæ luteæ marginatæ - - evadens, *Walk.*

B. Alæ anticæ angulo postico luteo.

a. Alæ posticæ non luteo notatæ. - Choninea, *Cram.*

b. Alæ posticæ luteo notatæ. - fulvangula, *Geyer.*

B. Caput album aut flavescens.

A. Alæ posticæ non luteo notatæ.

a. Alæ anticæ non plagiata. - - immacula, *Guen.*

b. Alæ anticæ plaga fusca. - - parens, *Guen.*

B. Alæ posticæ plaga lutea.

a. Alæ anticæ costa pallida. - - Pyrgo, *Cram.*

b. Alæ anticæ costa obscura. - - Maria, *Guen.*

c. Alæ posticæ luteæ, plaga nigra. - - Syrna, *Guen.*

D. Alæ posticæ luteæ, margine obscuro.

a. Thorax luteus. - - Hesione, *Drury.*

b. Thorax obscurus.

i. Thorax antice pallidus.

* Alæ anticæ pallidæ. - - latimacula, *Guen.*** Alæ anticæ obscuræ. - - Lincus, *Cram.*

ii. Thorax antice obscurus.

* Alæ anticæ non viridescentes.

† Alæ anticæ lineis nullis testaceis.

Sinaldus, *Guen.*†† Alæ anticæ lineis testaceis. holosericea, *Guen.*** Alæ anticæ viridescentes. - biarmata, *Guen.*

9. GONODONTA IMMACULA.

Fusca, subtus albida; caput palpique intus et apice alba; thorax cyaneo conspersus; abdomen æneo-fuscum; alæ anticæ lineis transversis undulatis obscurioribus unaque pallidiore, linea submarginali angulosa, punctis duobus nigris, uno discali, altero exteriori submarginali; posticæ nigro-cupreæ.

Gonodonta immacula, *Guen. Noct. ii. 365, 1206.*

Cayenne. Brazil.

a. Honduras. From Mr. Dyson's collection.

10. GONODONTA CHONINEA.

Ochraceo-ferruginea, subtus testacea; abdomen fusco-cinereum; alæ anticæ ferruginæ, apud marginem anteriorem nigro-fuscæ, lineis quinque transversis cinereis, puncto discali nigro, dente apud marginem posteriorem ochraceo; posticæ nigricantes.

Phalæna-Noctua Choninea, *Cram. Pap. Exct. iv. 42, pl. 310, f. F.*Athysania Chorinea, *Hübner. Verz. Schmett. 263, 2584.*Gonodonta Choninea, *Guen. Noct. ii. 366, 1207.*

Surinam.

a. Villa Nova. From Mr. Bates' collection.

b. Ega. From Mr. Bates' collection.

11. GONODONTA PARENS.

Mas. *Rufescente-cinerea, flavescence-fusco varia ; caput et palpi pallide flava ; abdomen nigricans ; alæ anticæ plaga discali saturate fusca, linea exteriori undulata cæruleo-alba, reniformi e lineola flavescente, strigis contiguis marginalibus rufo-fuscis, ciliis latis violaceo-cinereis ; posticæ nigricantes.*

Gonodonta parens, Guen. Noct. ii. 366, 1208.

Guadeloupe.

12. GONODONTA LINCUS.

Var. *Nigro-rubra, subtus testacea ; caput palpique apice flavescence-alba, illius vertex luteus ; thorax antice ochraceus ; abdomen nigro-cinereum, luteribus luteis ; alæ anticæ ferrugineæ, apud marginem exteriori rufescentes, lineis septem transversis cinereis, disco pallide flavescente, puncto discali nigro ; posticæ luteæ, margine lato nigro.*

Phalæna-Noctua Lincus, Cram. Pap. Exot. i. 79, pl. 50, f. H.

Bombyx Lincus, Fabr. Ent. Syst. iii. 1, 456, 152. Oliv. Enc. Méth. v. 189.

Gonodonta Lincus, Hübn. Verz. Schmett. 263, 2586. Guen. Noct. ii. 366, 1209, 51, 111.

a. Brazil. From Mr. Stevens' collection.

13. GONODONTA FULVANGULA.

Mas. *Ferruginea ; abdomen fuscum ; alæ anticæ strigulis anticis et discalibus lineaque basali albis, apice subpurpurascens, angulo postico luteo ; posticæ nigræ, fascia media lutea antice dilatata postice abbreviata.*

Gonodonta fulvangua (*Noctua semigeometra*, *Meropis festiva*), Geyer, Zutr. Samml. Exot. Schmett. 32, 369, f. 737, 738. Guen. Noct. ii. 367, 1210.

Monte Video.

14. GONODONTA LATIMACULA.

Fusca ; caput album ; thorax antice fulvus ; abdomen nigricans ; alæ anticæ flavescentes, apud discum flavo-albidæ, macula reniformi e puncto nigro, lineis septem transversis subundulatis, angulo interiore rufo-fulvo ; posticæ luteæ, nigro marginatæ.

Gonodonta latimacula, Guen. Noct. ii. 367, 1212.

Colombia.

15. GONODONTA UXORIA.

Fusca ; alæ anticæ nigræ, postice glaucescentes, basi purpureæ, linea transversa angulosa interiore, lineaque brevi subcostali cyaneis, strigis anticis transversis ferrugineis, macula discali strigaeque costali subapicali punctisque marginalibus albis, linea undulata exteriori flava, plaga apud angulum interiorem lineolas undulatas fuscas includente rosea ; posticæ nigræ, plaga transversa strigaeque exteriori luteis.

Phalæna Uxoria, Cram. Pap. Exot. iii. 150, pl. 276, f. A.

Gonodonta Uxoria, Guen. Noct. ii. 368, 1214.

Surinam.

16. GONODONTA MARIA.

Fusca, subtus alba ; caput album ; abdomen nigro-cupreum ; alæ anticæ nigro-ferrugineæ, cyaneo parce conspersæ, basi cervinæ, puncto discali nigro, lineis transversis undulatis exterioribus obscurioribus aut pallidioribus, litura apud angulum interiorem testacea ; posticæ nigro-cupreæ, plaga discali oblonga transversa lutea.

Gonodonta Maria, Guen. Noct. ii. 369, 1218.

Brazil.

17. GONODONTA PYRGO.

Cinerea, subtus albidæ ; caput flavo-album, vertice luteo ; palpi ferruginei, apice flavescentes ; thorax squamosus, iridescens, antice cervinus ; pedes antiqui nigri ; abdomen subcupreum, apice luteum ; alæ anticæ spudiceæ, costa flavo-alba, linea exteriori obliqua undulata cyanescente-fusco maculata, guttis submarginalibus fuscis ; posticæ sabcupreæ, macula antica ciliisque flavescentibus.

Phalæna Pyrgo, *Cram. Pap. Exot.* ii. 65, pl. 139, f. D.

Gonodonta Serix, *Guen. Noct.* ii. 370, 1219.

Gonodonta Pyrgo, *Guen. Noct.* ii. 37, 1221.

Surinam. Colombia.

a, b. Venezuela. From Mr. Dyson's collection.

c. Ega. From Mr. Bates' collection.

d. Brazil. Presented by W. W. Saunders, Esq.

18. GONODONTA HOLOSERICEA.

Nigro-fusca, subtus testacea; caput albidum, fusco varium; palpi nigro-fusci; thorax albo conspersus; abdomen luteum; alæ anticæ nigricantes, basi ferrugineæ, apud marginem anteriorem fuscæ purpurascente conspersæ lineis transversis undulatis testaceis, costa alba luteo marginata, macula apud angulum anteriorem rufescente-luteo et purpurascente marginata; posticæ luteæ margine latissimo subcupreo.

Gonodonta holosericea, *Guen. Noct.* ii. 371, 1222.

Colombia.

a. Venezuela. From Mr. Dyson's collection.

19. GONODONTA HESIONE.

Lutea; alæ anticæ fuscæ linea transversa arcuata subbasali strigatæ clavata postica albis; posticæ nigro late marginatæ.

Phalæna Hesione, *Drury, Ins.* iii. 29, pl. 22, f. 2.

Gonodonta uncina (Noctua semigeometra, Meropis festiva), *Hübner. Samml. Exot. Schmett.* i. 11, 18, f. 35, 36; *Verz. Schmett.* 263, 2587.

Gonodonta Hesione, *Guen. Noct.* ii. 372, 1224.

Brazil. Colombia.

20. GONODONTA SINALDUS.

Cana, subtus albido-testacea; thorax purpurascente conspersus, fusco subfasciatus; abdomen luteum; alæ anticæ nigro-cupreæ, basi cervinæ, costa margine exteriori lato plagaque postica albidis, punctis marginalibus fuscis; posticæ luteæ, fusco late marginatæ.

Gonodonta Sinaldus, *Guen. Noct.* ii. 372, 1226.

Colombia.

a, b. Venezuela. From Mr. Dyson's collection.

21. GONODONTA SYRNA.

Mas. *Olivaceo-cinerea; abdomen luteum; alæ anticæ saturate fusca, basi olivaceo-fusca, dente interiore nullo, linea submarginali recta, spatio marginali purpurascendo-cinereo punctis pallidioribus, linea costali alba basi recurva; posticæ luteæ, plaga trigona nigra.*

Gonodonta Syrna, *Guen. Noct.* ii. 371, 1223.

Cayenne.

22. GONODONTA BIARMATA.

Olivacea; abdomen luteum; alæ anticæ olivaceo-virides, spatio marginali pallidioribus, linea submarginali recta, inter lineas duas denticulatas indistinctas, arcu punctoque anticis cinereis, reniformi e punctis duobus nigricantibus, linea costali flavescendo-alba basi recurva; posticæ aurato-flavæ, nigro marginatæ.

Gonodonta biarmata, *Guen. Noct.* ii. 373, 1227.

Brazil.

23. GONODONTA EVADENS.

Fœm. *Fusco-cinerea, subtus testacea; palpi subtus pedesque anteriores obscure fusci; thorax iridescent; alæ anticæ fusca, apud marginem exteriorem purpurascendo, linea obliqua basali albida, costa albida nigro uniguttata, linea postica purpurascendo, reniformi ex parte nigro marginata, linea exteriori angulosa obscure fusca pallido marginata, lineis duabus conjunctis (una recta, altera angulosa) pallidis, strigis nigris lineaque angulosa fusca submarginalibus; posticæ pallide luteæ, margine lato diffuso cupreo-fusco.*

Female. Brownish cinereous, testaceous beneath. Palpi dark brown beneath. Thorax iridescent. Abdomen paler than the thorax. Anterior legs dark brown. Fore wings brown, purplish along the exterior border, with an oblique transverse basal whitish line; costa whitish, except at the base, near which it contains a black dot, and joins the line before mentioned; a purplish line

along the interior border near the interior tooth, which is very large; the other tooth much smaller; reniform spot distinguished by its partly blackish outline; at some distance beyond it there is a dark brown pale-bordered zigzag line, and beyond the latter two combined pale lines, the one straight, the other zigzag; a row of black streaks between these lines and a zigzag brown line, which is near the exterior border. Hind wings pale luteous, with broad diffuse cupreous-brown borders. Length of the body $8\frac{1}{2}$ lines; of the wings 20 lines.

a, b. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

24. GONODONTA ÆQUALIS.

Mas. *Fusca, subtus cinerea; caput supra nigricans; alæ anticæ subcupreæ, apud margines exteriorem et interiorem subpurpurascens, lineis nonnullis transversis undulatis indistinctis obscurioribus duabusque sat conspicuis, exteriore lineaque pallida abbreviata conjunctis, linea submarginali angulosa, punctis duobus (uno discali, altero marginali) nigris; posticæ cupreo-fusæ.*

Male. Brown, cinereous beneath. Head blackish above. Abdomen cinereous-æneous. Fore wings with a slight cupreous tinge, on which about the exterior border and along the interior border there is a slight purplish tinge; some indistinct undulating transverse darker lines, two more conspicuous than the others, and enclosing about a third of the surface of the wing between them, the exterior one accompanied by an abbreviated pale line; submarginal line zigzag; a black point in the disk, and another on the exterior border near the interior angle, about which the wing is more cupreous than it is elsewhere. Hind wings cupreous-brown. Length of the body 7 lines; of the wings 16 lines.

a. Santarem. From Mr. Bates' collection.

25. GONODONTA SEPARANS.

Fœm. *Cinerea; abdomen æneo-fuscum; alæ anticæ fusæ, apud marginem exteriorem subpurpurascens, linea basali obliqua rufa albo nitente marginata, litura postica albo nitente rufo notata, costa cinerea subpurpurascens, linea recta alba, macula discali guttisque submarginalibus et marginalibus nigris; posticæ æneo-fusæ.*

Female. Cinereous. Abdomen æneous-brown. Fore wings clear brown, with an oblique red basal line, which has a shining white border, and with a shining white red-spotted mark on the excavation of the interior border; costa cinereous, with a lilac tinge, which also appears towards the tip of the wing beyond a straight and upright white line; a black discal spot; submarginal and marginal dots also black. Hind wings æneous-brown. Length of the body 7 lines; of the wings 16 lines.

a. Ega. From Mr. Bates' collection.

26. GONODONTA TEMPERATA.

Fœm. *Cervina, subtus albida; palpi intus et apice caputque alba; abdomen cupreo-fuscum, subtus testaceum; alæ anticæ linea interiore obscuriore perangulosa, lineis duabus exterioribus anticæ arcuatis, margine exteriori pallidiore, costa ex parte testacea; posticæ cupreo-fuscæ, quatuor subtus fuscæ, costa et posticarum macula magna discali testaceis.*

Female. Fawn-colour, whitish beneath. Head and palpi on the inner side and at the tips white. Abdomen cupreous-brown, testaceous beneath. Fore wings with a very zigzag interior darker line, and with two exterior lines, which are curved in front; exterior border paler; costa partly testaceous. Hind wings cupreous-brown. Wings beneath brown, testaceous along the costa; hind wings with a large testaceous discal spot. Length of the body $6\frac{1}{2}$ lines; of the wings 16 lines.

a. Venezuela. From Mr. Dyson's collection.

b. ——— ? From Mr. Milne's collection.

27. GONODONTA VELATA.

Mas et fœm. *Ferruginea, subtus pallide testacea; palpi intus et apice caputque alba; abdomen cupreo-fuscum, apice testaceum subtus luteum; alæ anticæ basi pallidiores, apud marginem exterioriorem purpurascente conspersæ, lineis nonnullis transversis obscuris anticæ arcuatis, fasciis duabus basalibus angustis obscuris perangulosis, litura costali subapicali cyanea, macula apud angulum interiorem ochracea; posticæ cupreo-fuscæ, macula parva discali indeterminata pallide lutea, subtus lutea, margine lato cupreo.*

Male and female. Ferruginous, pale testaceous beneath. Head and palpi on the inner side and towards the tips white. Abdomen cupreous-brown, testaceous at the tip, luteous beneath. Fore wings paler towards the base, near which there are two slender dark very zigzag bands; the part towards the exterior border is sprinkled with a purplish hue, and contains several transverse dark lines, which are curved in front; a slight costal subapical blue mark, and an ochraceous spot by the interior angle. Hind wings cupreous-brown, with a small shaded pale luteous discal spot; under side luteous, with a broad cupreous border. Length of the body $7\frac{1}{2}$ lines; of the wings 18 lines.

a—d. ——— ? From Mr. Milne's collection.

Genus 3. CALPE.

Corpus robustum. Proboscis mediocriter longa. Palpi porrecti, validi, subtus densissime fasciculati; articulus 3us minimus. Antennæ corporis dimidio non longiores. Abdomen alas posticas non superans. Pedes validi, pilosi; tibiæ posticæ calcaribus longis. Alæ sat amplæ; anticæ apud costam rectæ, apice acuminatæ subhamatæ, margine exteriori convexo denticulato, interiore excavato dentato. *Mas.*—Antennæ pectinatæ.

Calpe, *Treit. Schmett.* ii. 168; *Boisd.*; *Dup.*; *Guen. Noct.* ii. 373.

Gonodonta, p., *Hübner. Verz. Schmett.* 263.

Calyptra, *Ochs.*; *Dup.*; *Latr.*

Body stout. Proboscis moderately long. Palpi porrect, stout, very thickly tufted beneath; third joint very minute, hidden by the hairs of the second. Antennæ not more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout, pilose; hind tibiæ with long spurs. Wings somewhat ample. Fore wings straight in front, acuminate and almost hooked at the tips; exterior border denticulated, convex, hardly oblique in front; interior border distinctly excavated and dentate. *Male.*—Antennæ pectinated.

Europe.

1. CALPE THALICTRI.

Cervina; thorax lineis transversis albidis; abdomen testaceum, basi albidum; alæ anticæ lineolis transversis albidis, fasciis tribus obliquis fusciscentibus, linea obliqua ferruginea subundulata extus albido marginata; posticæ testaceæ, basim versus pallidiores.

———, *Engr. Pap. d' Eur.* 258, a—c.

Bombyx capucina, *Esp. Schmett.* iii. pl. 81, f. 1.

Bombyx Thalictri, *Bork. Eur. Schmett.* iii. 425, 159. *Hübner. Eur. Schmett. Bomb.* pl. 6, f. 25; *Larv. Lep.* iii. *Bomb.* i. C, c, d, f. 1.

Gonodonta Thalictri, *Hübner. Verz. Schmett.* 263, 2585.

Calpe Thalictri, *Ochs. Schmett.* iv. 78. *Treit. Schmett.* v. 169. *Dup. Léop.* vii. 1, pl. 131, f. 2, 3. *Meig. Syst. Besch.* iii. 1, pl. 80, f. 9. *Frey. Beitr.* ii. pl. 165. *Boisd. Ind. Méth.* 156, 1256. *Guen. Noct.* ii. 374, 1229.

a—f. Europe. From M. Becker's collection.

Asia.

2. CALPE OPHIDEROIDES.

Cervina; abdomen luteum; alæ anticæ cinereo-cervinæ, transverse substrigatæ; guttis duabus discalibus nigris, linea obliqua recta exteriori ferruginea; posticæ luteæ.

Calpe Ophideroides, *Guen. Noct.* ii. 374, 1228.

a. Singapore. From Mr. Stevens' collection.

b. Landoor. Presented by Gen. Hearsay.

c. Nepaul. Presented by W. W. Saunders, Esq.

3. CALPE MINUTICORNIS.

Cinerea, subtus testacea; alæ anticæ sericeæ, strigulis transversis pallidioribus, linea obliqua fusca pallido marginata, punctis elongatis submarginalibus nigris; posticæ ciliis pallidis.

Calpe minuticornis, *Guen. Noct.* ii. 374, 1230.

Java.

Genus 4. HAPIGIA.

Corpus robustum. Proboscis valida. Palpi ascendentes, contigui; articulus 2us crassus, densissime pilosus; 3us brevis. Antennæ validæ, setoso-crenulatæ. Thorax longus. Abdomen longissimum, alas posticas dimidio superans. Alæ longissimæ; anticæ apice acuminatæ subhamatæ, margine exteriori subconvexo perobliquo, interiori non excavato nec dentato, ciliis brevissimis. *Mas.*—Antennarum articuli basales nodosi. Pedes densissime villosi.

Hapygia, *Guen. Noct. ii. 375.*

Body stout. Proboscis thick. Palpi ascending, closely applied together; second joint stout, thickly pilose; third short. Antennæ stout, setose-crenulate. Thorax long. Abdomen very long, extending for half its length beyond the hind wings. Wings very long. Fore wings acute and slightly hooked at the tips; exterior border slightly convex, very oblique; ciliæ very short; interior border not excavated nor dentate. *Male.*—Antennæ with the joints towards the base nodose. Legs most thickly clothed.

1. HAPIGIA NODICORNIS.

Purpurascens-rufa; abdomen cinereum; alæ anticæ fasciis nebulosis obscurioribus, reniformi attenuata interrupta aurato marginata, maculis submarginalibus nigricantibus, striga subapicali aurata; posticæ nigro-cinereæ, ciliis apice albidis.

Hapygia nodicornis, *Guen. Noct. ii. 376, 1231.*

Cayenne.

Genus 5. DIAMUNA.

Fæm. Corpus robustum. Palpi breves. Antennæ simplices, corporis dimidio vix longiores. Abdomen alas posticas non superans. Alæ anticæ longæ, non latæ, apud costam convexæ, apice rotundatæ, margine exteriori perobliquo, interiori vix concavo non dentato.

Female. Body stout. Palpi short. Antennæ simple, hardly more than half the length of the body. Abdomen not extending beyond the hind wings. Fore wings long, not broad, convex in front, somewhat rounded at the tips, very oblique along the exterior border; interior border hardly concave, without teeth.

1. DIAMUNA SEVERA.

Ferruginea; alæ anticæ plaga antica maxima costali obscuriore nigro late marginata; posticæ latiores, luteæ, margine lato nigro.

Phalæna Severa, Cram. Pap. Exot. iv. 235, pl. 398, f. L.

Surinam.

Genus 6. CLITIS.

Mas. Corpus robustum. Palpi breves, caput vix superantes. Antennæ simplices, corporis dimidio non longiores. Abdomen alas posticas vix superans. Alæ anticæ mediocriter latæ, apud costam vix convexæ, apice rotundatæ, margine exteriori perparum obliquo antice subconcavo, margine interiore non concavo nec dentato. Alæ posticæ latæ.

Male. Body stout. Palpi short, hardly extending beyond the head. Antennæ simple, not more than half the length of the body. Abdomen hardly extending beyond the hind wings. Fore wings moderately broad, hardly convex in front, rounded at the tips; exterior border very slightly oblique, slightly concave in front; interior border not excavated, nor with teeth. Hind wings broad.

1. CLITIS PROSERPINA.

Ferruginea; alæ anticæ strigis duabus costalibus subapicalibus fasciæque marginali nigris, lineolis marginalibus glaucis; posticæ nigræ, disco luteo antice attenuato.

Phalæna-Noctua Proserpina, Cram. Pap. Exot. iv. 239, pl. 399, f. 1.

Surinam.

Genus 7. FERENTA.

Corpus robustum. Palpi longi, validi, porrecti, caput longe superantes. Antennæ validæ, simplices, corporis dimidio longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcaribus longis. Alæ latæ; anticæ apud costam convexæ, apice subrotundatæ, margine exteriori mediocriter obliquo, margine interiore subconcavo intus subdentato.

Body stout. Palpi long, stout, porrect, extending far beyond the head. Antennæ stout, simple, more than half the length of the body. Abdomen extending a little beyond the hind wings. Legs stout; hind tibiæ with long spurs. Wings broad. Fore wings convex in front, somewhat rounded at the tips, moderately oblique along the exterior border; interior border slightly concave, forming a slight tooth near the base.

1. FERENTA STOLLIANA.

Ferruginea; abdomen cæruleum; alæ anticæ strigis transversis costalibus interioribus nigris et glaucis, fascia media, macula discali plaga apicali lineaque exteriore transversa undulata nigris, fascia lata exteriore carnea, strigis duabus posticis maculaque elongata marginali glaucis; posticæ cyaneæ, margine interiore cæruleo, fascia lata abbreviata lutea.

Phalæna-Noctua Stolliana, Cram. Pap. Exot. iv. 41, pl. 310, f. A, B.

Surinam.

Genus 8. DEVA.

Mas. Corpus gracile. Caput fasciculatum. Proboscis mediocriter longa. Palpi ascendentes; articulus 2us validus, compressus, dense fasciculatus; 3us gracilis, longus, linearis, acuminatus, 2i dimidio multo longior. Antennæ simplices, graciles, corporis dimidio longiores. Abdomen alas posticas triente superans. Pedes graciles; tibiæ posticæ calcaribus longissimis. Alæ anticæ auratæ, mediocriter latæ, apud costam rectæ, apice angulatæ, margine exteriore subangulato, interiore subexcavato.

Male. Body slender. Head tufted. Proboscis moderately long. Palpi ascending; second joint stout, compressed, thickly tufted; third long, slender, linear, acuminate, much more than half the length of the second. Antennæ simple, slender, more than half the length of the body. Abdomen extending full one-third of its length beyond the hind wings. Legs slender; hind tibiæ with very long spurs. Wings moderately broad. Fore wings gilded, straight in front, rectangular at the tips; exterior border slightly angular in the middle, fore part hardly oblique; interior border very slightly excavated, interior tooth distinct; exterior tooth obsolete.

1. DEVA STIMULANS.

Mas. *Cervina, subtus cinerea ; caput et thorax anticus ochracea ; abdomen cinereum ; alæ anticæ ex parte ferrugineo nebulosæ, lineis transversis undulatis argenteo canis, maculis nonnullis basalibus fasciæque obliqua triramosa argenteis micantibus, hac et linea cinerea conjunctis, linea transversa guttulari nigricante, reniformi distincta, lineis duabus marginalibus argenteis ; posticæ æneæ, ciliis angustis canis.*

Male. Fawn-colour, cinereous beneath. Head and fore part of the thorax ochraceous. Abdomen cinereous. Fore wings partly shaded with ferruginous, with several undulating transverse silvery hoary lines, with some bright silvery spots near the base, and with a bright silvery oblique band, which extends between the tip and the interior angle ; this band is partly accompanied by a cinereous line, and emits three branches, one to the exterior part of the interior border, another to the angle of the exterior border, and a third to the costa near the tip ; a transverse row of blackish dots beyond the reniform spot, which is distinct ; two marginal silvery lines, the exterior one zigzag. Hind wings æneous, with hoary narrow ciliæ. Length of the body 6? lines ; of the wings 13 lines.

a—d. St. Domingo. From Mr. Tweedie's collection.

e. ———? Presented by J. F. Stephens, Esq.

2. DEVA CONDUCTENS.

Mas. *Cervina, subtus cinerea ; abdomen subæneo-cinereum ; alæ anticæ subochraceæ, ferrugineo subnebulosæ, basi liturisque costalibus argenteo-cinereis, fasciæ obliqua ferruginea strigisque duabus (una nigricante, altera argenteo-cinerea) connexis, maculis nonnullis ex parte fusco marginatis spatique exteriore auratis, lunulis marginalibus argenteis ; posticæ æneæ, ciliis cinereis.*

Male. Fawn-colour, cinereous beneath. Abdomen cinereous, slightly æneous. Fore wings dull ochraceous, slightly shaded with ferruginous, silvery cinereous at the base, and with some silvery cinereous marks along the costa ; a ferruginous oblique band extending from near the tip of the wing to the interior tooth, accompanied by a blackish streak, which is obsolete hindward, and by a silvery cinereous streak, which is dilated hindward ; several irregular

mostly brown-bordered gilded spots scattered over the wing; space between the band and the exterior border mostly gilded; a row of marginal silvery lunules. Hind wings æneous, with cinereous ciliæ. Length of the body 6 lines; of the wings 13 lines.

a. Ceylon. Presented by R. Templeton, Esq.

b. ———? Presented by J. F. Stephens, Esq.

Genus 9. GADERA.

Mas. Corpus gracile. Caput fasciculatum. Proboscis brevis. Palpi longissimi, porrecti, caput longe superantes; articulus 2us validus densissime fasciculatus; 3us gracilis, acuminatus, 2i triente non longior. Antennæ graciles, simplices, corporis dimidio non longiores. Abdomen alas posticas paullo superans. Pedes longi, graciles; tibiæ posticæ calcaribus longis. Alæ latiusculæ; anticæ apud costam rectæ, apice acuminatæ, margine exteriore angulato, interiore excavato.

Male. Body slender. Head tufted in front. Proboscis short. Palpi very long, porrect, extending far beyond the head; second joint stout, most thickly tufted; third slender, acuminate, not more than one-third of the length of the second. Antennæ slender, simple, about half the length of the body. Abdomen extending a little beyond the hind wings. Legs long, slender; hind tibiæ with long spurs. Wings rather broad. Fore wings straight in front, acuminate at the tips, distinctly angular on the exterior border; interior border excavated; interior angle distinct; exterior angle almost obsolete.

1. GADERA INCITANS.

Mas. *Cervina, subtus cinerea; caput et thorax anticus sublutea; thorax fusco-fasciatus; abdomen cinereum; alæ anticæ subauratæ, cinereo variæ, basi aureo micantes, fascia exteriore obliqua aurea micante ferrugineo lineata et marginata postice dilatata argenteo bimaculata, orbiculari et reniformi ferrugineo marginatis; posticæ cinereo-æneæ.*

Male. Fawn-colour, pale cinereous beneath. Head and fore part of the thorax somewhat luteous, the latter with a brown band. Abdomen pale cinereous. Fore wings slightly gilded, partly and slightly tinged with cinereous, brightly gilded towards the base, and

with an exterior oblique brightly gilded band, which is much dilated hindward, has a ferruginous border and contains some ferruginous undulating lines, and on its inner side two bright silvery spots; orbicular and reniform spots with ferruginous borders. Hind wings cinereous-æneous. Length of the body 7 lines; of the wings 16 lines.

a. ———? Presented by J. F. Stephens, Esq.

2. GADERA REPELLENS.

Mas. *Cervina, subtus cinerea; vertex et abdomen cinerea; alæ anticæ cinereo-fuscæ, basi auratæ, lineis transversis ferrugineis, fascia aurata submarginali postice dilatata, orbiculari et reniformi indistinctis; posticæ cinereo-aneæ.*

Male. Fawn-colour, cinereous beneath. Vertex and abdomen cinereous. Fore wings cinereous-brown, with some irregular transverse ferruginous lines, gilded towards the base, and with an irregular submarginal gilded band, which is dilated hindward; orbicular and reniform spots indistinct. Hind wings dark cinereous-æneous. Length of the body 6 lines; of the wings 14 lines.

This species may be distinguished from *G. incitans* by its fore wings, and more especially by the much longer third joint of its palpi.

Brazil.

a. ———? Presented by E. Doubleday, Esq.

Genus 10. DEVENA.

Fæm. Corpus vix robustum. Proboscis mediocriter longa. Palpi longi, ascendentes, sat graciles; articulus 3us acuminatus, 2o vix brevior. Antennæ simplices, graciles. Abdomen alas posticas triente superans. Pedes longiusculi, sat validi; tibiæ posticæ calcaribus longissimis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice subrotundatæ, margine exteriori vix convexo non obliquo; interiore excavato dentato.

Allied to the *Pyrallites*. Female. Body hardly stout. Proboscis moderately long. Palpi long, ascending, rather slender; third joint acuminate, almost as long as the second. Antennæ

simple, slender. Abdomen extending for about one-third of its length beyond the hind wings. Legs rather long, moderately stout; hind tibiæ with very long spurs. Wings moderately broad. Fore wings straight in front, slightly rounded at the tips; exterior border hardly convex, not oblique; interior border much excavated in the middle, with two slight teeth.

1. DEVENA ATOMIFERA.

Fœm. *Cinereo-fusca; alæ anticæ punctis, gutta discali lineaque obliqua recta exteriore nigris; posticæ obscuriores, ciliis cinereis.*

Female. Cinereous-brown, somewhat paler beneath. Fore wings thinly sprinkled with black points, which abound most towards the exterior angle, and by their confluence form a discal dot; a straight oblique transverse black line somewhat beyond the discal dot. Hind wings a little darker than the fore wings; ciliæ pale cinereous. Length of the body 7 lines; of the wings 18 lines.

a. ———? Presented by E. Doubleday, Esq.

Genus 11. ECREGMA.

Mas. Corpus robustum. Proboscis mediocriter longa. Caput bifasciculatum. Palpi ascendentes, brevisculi; articulus 3us minimus. Antennæ graciles, subciliatæ, corporis dimidio longiores. Abdomen alas posticas perpaullo superans. Pedes sat validi; tibiæ posticæ calcaribus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, margine exteriore vix convexo sat obliquo, interiore perparum excavato, dentibus subobsoletis.

Male. Body stout. Proboscis moderately long. Head with a tuft on each side by the base of the antennæ. Palpi ascending, rather short; third joint very minute. Antennæ slender, very minutely ciliated, more than half the length of the body. Abdomen extending very little beyond the hind wings. Legs moderately stout; hind tibiæ with long spurs. Fore wings moderately broad, straight in front, rectangular at the tips; exterior border very slightly convex, rather oblique; interior border very slightly excavated exteriorly, the teeth almost obsolete.

This genus may possibly not belong to the *Calpidæ*.

1. *ECREGMA TRANDUCTA*.

Mas. *Albido-testacea; alæ anticæ lineis duabus transversis ferrugineis, 2a obliqua subarcuata, venis maculaque discali nigricantibus; posticæ albidæ, cinereo submarginatæ.*

Male. Whitish testaceous. Fore wings with two transverse ferruginous lines, the one interior, the second oblique, exterior and slightly curved; veins mostly and discal spot blackish. Hind wings whitish, with slightly cinereous borders. Length of the body 7 lines; of the wings 17 lines.

a. Venezuela. From Mr. Dyson's collection.

Fam. 6. *HEMICERIDÆ*.

Corpus læve, sat robustum. Proboscis mediocris. Palpi sæpissime ascendentes, caput non aut vix superantes. Antennæ longæ, ciliatæ. Thorax brevis, tegulis non remotis. Abdomen longiusculum, alas posticas sæpissime superans. Tibiæ posticæ calcaribus longis. Alæ anticæ nonnunquam subhamatæ, margine interiore sæpe excavato. *Mas.*—Antennæ sæpe pectinatæ.

Hemiceridæ, Guen. Noct. ii. 377.

Body smooth, moderately stout. Proboscis of moderate length. Palpi most often ascending, not or but slightly extending beyond the head. Antennæ long, ciliated. Thorax short; lappets not remote. Hind tibiæ with long spurs. Fore wings in some species slightly falcate; the interior border often excavated. *Male.*—Antennæ most often pectinated.

A. *Pedes pilosi.*

A. *Pedes breves.* - - - - 1. *CANODIA, Guen.*

B. *Pedes non breves.*a. *Alæ anticæ apice acutæ.*

a. *Antennæ maris basi pectinatæ.* - 3. *HEMICERAS, Guen.*

b. *Antennæ maris fere ad apices pectinatæ.*

4. *LYMPHORTA, Walk.*

b. *Alæ anticæ apice rotundatæ.* - 6. *WESTERMANNIA, Hübn.*

B. *Pedes non aut vix pilosi.*

A. *Antennæ pubescentes.* - - 2. *ARCYOPHORA, Guen.*

B. *Antennæ non pubescentes.* - - 5. *ACHANTODES, Guen.*

Genus 1. CANODIA.

Corpus robustum. Proboscis valida. Palpi brevissimi, porrecti, approximati, pubescentes, frontem non attingentes; articulus 3us indistinctus. Antennæ maris et fæminæ usque ad apices pectinatae. Abdomen alas posticas triente superans. Pedes breves. Alæ anticæ integræ, mediocriter latæ, apud costam rectæ, apice acutæ subhamatæ, margine exteriori convexo sat obliquo.

Canodia, *Guen. Noct. ii. 377.*

Body robust. Proboscis stout. Palpi porrect, approximate, pubescent, very short, not extending to the front; third joint indistinct. Antennæ pectinated to the tips in both sexes. Abdomen extending for one-third of its length beyond the hind wings. Legs short. Fore wings moderately broad, straight along the costa, acute and slightly hooked at the tips; exterior border convex, very oblique along the hind part; interior border entire.

1. CANODIA CARMELITOIDES.

Fusca; thorax saturatior; alæ anticæ costam versus subauratæ, postice carneo nitentes, plaga apud angulum interiorem flavescente, linea costali, lineis tribus transversis sinuatis subparallelis et reniformis margine nigro-violaceis, puncto apud reniformem ochraceo; posticæ nigricantes, margine ciliisque subochraceis.

Canodia carmelitoides, *Guen. Noct. ii. 378, 1232.*

Brazil.

Genus 2. ARCYOPHORA.

Corpus sat robustum. Fasciculus frontalis planus. Proboscis mediocriter longa. Palpi squamosi, subascendentes, non approximati, caput vix superantes; articulus 2us fusiformis; 3us 2o non tenuior vix brevior. Antennæ pubescentes. Thorax brevis, rotundatus, tegulis magnis. Abdomen longum, subcarinatum, oblanceolatum, alas posticas paullo superans. Pedes graciles, vix pilosi. Alæ latiusculæ, integræ; antice apud costam vix convexæ, apice acutæ, margine exteriori convexo postice perobliquo, interiori vix excavato. *Mas.*—Abdominis valvæ longæ, semiconicæ, fasciculis squamosis.

Arcyophora, *Guen. Noct. ii. 378.*

Body rather stout. Front with a flat tuft. Proboscis moderately long. Palpi squamose, slightly ascending, far apart, hardly extending beyond the front; second joint fusiform; third not more slender and hardly shorter than the second, Antennæ pubescent. Thorax short, rounded, with large lappets. Abdomen long, oblanceolate, slightly keeled, extending a little beyond the hind wings. Legs slender, hardly pilose. Wings rather broad. Fore wings hardly convex along the costa, acute at the tips; exterior border convex, very oblique hindward; interior border hardly excavated. *Male*.—Valves of the abdomen long, half conical, with little squamose tufts.

1. ARCYOPHORA LONGIVALVIS.

Isabellino-flavescens; caput et prothorax castaneo-fusca; abdomen apice subcarneum; alæ anticæ strigulis plurimis transversis lineisque duabus obliquis subparallelis olivaceo-viridibus; posticæ albæ, subincarnatæ, margine saturatiore.

Arcyophora longivalvis, *Guen. Noct. ii. 379.*

Port Natal.

Genus 3. HEMICERAS.

Mas. Corpus robustum. Caput bifasciculatum. Proboscis mediocriter longa. Palpi ascendentes, breves, pilosi; articulus 3us minimus. Antennæ corporis dimidio multo longiores. Abdomen alas posticas paullo superans. Pedes validi; tibiæ posticæ calcariibus longis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice subrotundatæ, margine exteriori subconvexo mediocriter obliquo, interiore nonnunquam excavato et bidentato. *Mas.*—Antennæ triente basali pectinatæ.

Hemiceras, *Guen. Noct. ii. 379.*

Body stout. Head with a slight tuft on each side by the antenna. Proboscis moderately long. Palpi ascending, short, pilose; third joint very minute. Antennæ much more than half the length of the body. Abdomen extending one-fourth of its length beyond the hind wings. Legs stout; hind tibiæ with long spurs. Fore wings moderately broad, quite straight in front, slightly rounded at the tips, slightly convex and moderately oblique along the exterior border; interior border in some species rather deeply excavated, with distinct teeth. *Male*.—Antennæ pectinated to one-third of the length from the base.

North America:

1. HEMICERAS CADMIA.

Roseo-cinerea; prothorax et tegula nigricante marginata; alæ anticæ fusco conspersæ, venis saturationibus, lineis duabus transversis apud costam valde remotis postice convergentibus fuscis; posticæ albæ, rufo-fusco apud marginem interiorem præsertim tinctæ.

Hemiceras Cadmia, *Guen. Noct.* ii. 383, 1240.

North America.

South America.

A. Alæ anticæ margine interiore excavato.

A. Alæ anticæ margine interiore sat excavato.

A. Alæ anticæ conspersæ. - - - sparsipennis, *Walk.*

B. Alæ anticæ non conspersæ.

a. Alæ anticæ pallidæ. - - - pallidula, *Guen.*

b. Alæ anticæ obscuræ.

i. Alæ posticæ fuscæ. - - - Sigula, *Guen.*

ii. Alæ posticæ flavo-albæ. - - violascens, *Guen.*

B. Alæ anticæ margine interiore subexcavato.

A. Alæ anticæ nigricante nebulosæ. - trinubila, *Guen.*

B. Alæ anticæ non nigricante nebulosæ.

a. Alæ anticæ conspersæ. - - - pulverula, *Guen.*

b. Alæ anticæ non conspersæ.

i. Alæ posticæ cinereæ. - - - Meona, *Cram.*

ii. Alæ posticæ non cinereæ.

* Alæ anticæ punctis albis. - - Lotula, *Guen.*

** Alæ anticæ punctis nullis albis. metastigma, *Walk.*

B. Alæ anticæ margine exteriori non excavato.

A. Alæ anticæ costa non pallidiore.

A. Alæ anticæ linea una. - - - linea, *Guen.*

B. Alæ anticæ lineis duabus.

a. Abdomen nigricante nebulosum. - Barina, *Guen.*

b. Abdomen non nigricante nebulosum.

i. Alæ posticæ cinereæ. - - indistans, *Guen.*

ii. Alæ posticæ albæ. - - leucospila, *Walk.*

B. Alæ anticæ costa pallidiore. - - vinicosta, *Guen.*

2. HEMICERAS PALLIDULA.

Straminea; thorax violaceo-cinereus, prothoracis et tegularum marginibus saturatioribus; alæ anticæ margine exteriori per-obliquo, interiore excavato, lineis duabus medianis non bene determinatis (2a subpunctiformi) maculisque vagis submarginalibus violaceo-cinereis, punctis tribus apud reniformem duabusque interioribus albis; posticæ pallide ochraceæ, carneo submarginatæ.

Hemiceras pallidula, Guen. Noct. ii. 301, 1234.

Brazil.

3. HEMICERAS LINEA.

Isabellina; abdomen ferrugineo-ochraceum; alæ anticæ linea recta obliqua bene determinata fusca extus fulvo marginata, margine interiore integro; posticæ ferrugineo-ochraceæ, costa ochracea.

Hemiceras linea, Guen. Noct. ii. 381, 1235.

Brazil.

4. HEMICERAS TRINUBILA.

Isabellina; prothorax et tegulæ nigro-violaceo marginata; alæ anticæ nigricante nebulosæ, lineis duabus transversis bene determinatis isabellino marginatis apud venas nigro punctatis, submarginali denticulata e punctis postice obsoleta, reniformi maculisque duabus approximatis nigricantibus; posticæ albidæ, venis margineque rufescentibus.

Hemiceras trinubila, Guen. Noct. ii. 382, 1236.

Brazil.

5. HEMICERAS LOTULA.

Pallide cervina; caput albo varium; thorax strigis duabus lateralibus nigris; abdomen testaceum; alæ anticæ nigro conspersæ, maculis quatuor discalibus, una basali lineaque obliqua exteriori nigris; posticæ albidæ, cervino marginatæ.

Hemiceras lotula, Guen. Noct. ii. 382, 1237.

Brazil.

6. HEMICERAS PULVERULA.

Testaceo-cinerea ; *alæ anticæ sericeæ*, *fusco albidoque conspersæ*, *lineis duabus transversis apud costam remotis postice approximatis ochraceo marginatis*, *linea submarginali denticulata postice obsoleta*, *maculis duabus aut tribus discalibus vagis nigricantibus*, *posticæ pallidæ*, *macula venis margineque fuscis*.

Hemiceras pulverula, *Guen. Noct. ii.* 382, 1238.

Brazil.

7. HEMICERAS SPARSIPPENNIS.

Mas. Lateritia, *subtus testacea* ; *caput et thorax albo subfasciata* ; *abdomen cinereum* ; *alæ anticæ albo conspersæ*, *costa alba*, *guttis duabus discalibus nigris*, *fascia exterior obliqua undulata nigricante* ; *posticæ cinereæ*, *margine lato fusciscente*, *ciliis albidis*.

Male. Brick-red, testaceous beneath. Head and thorax with irregular white bands. Abdomen cinereous. Fore wings irregularly sprinkled with white ; costa white ; two black discal dots ; an oblique exterior blackish band, whose sides are undulating and sprinkled with white. Hind wings cinereous, with broad brownish borders ; ciliæ whitish. Length of the body 8 lines ; of the wings 18 lines.

a—c. Parà. From Mr. Bates' collection.

8. HEMICERAS INDISTANS.

Albo-cinerea, *subrosea* ; *alæ anticæ nigro-fusco conspersæ*, *lineis duabus approximatis*, *albo-cinereo marginatis*, *1a subflexuosa*, *2a subarcuata*, *submarginali e lituris nonnullis nigricantibus*, *reniformi e macula vaga nigricante* ; *posticæ cinereæ*, *basi flavescente-albæ*, *venis margineque fuscis*.

Hemiceras indistans, *Guen. Noct. ii.* 383, 1239.

Brazil ?

9. HEMICERAS BARINA.

Roseo-cinerea ; *abdomen nigricante nebulosum* ; *alæ anticæ nitescentes*, *aurato-fusco nebulosæ*, *lineis duabus transversis lineolam fluorescente-albam includentibus*, *1a obliqua recta*, *2a flexa*, *submarginali e punctis albis*, *reniformi e macula vaga obscura* ; *posticæ obscure violaceo-cinereæ*, *ciliis pallide flavescenscentibus*.

Hemiceras Barina, *Guen. Noct.* ii. 383, 1241.

Brazil.

10. HEMICERAS SIGULA.

Obscure violaceo-cinerea; alæ anticæ nitentes, olivaceo-fusco nebulosæ, lineis duabus transversis indistinctis, 1a subrecta, 2a obliqua angulosa interrupta, reniformi apicem versus conspicua denticulata, macula discali vaga nigricante; posticæ fuscæ, basi pallidiores, ciliis albidis.

Hemiceras Sigula, *Guen. Noct.* ii. 384, 1242.

Brazil.

11. HEMICERAS VIOLASCENS.

H. Sigula simillima, major, obscurior; alæ anticæ margine interiore minus excavato, dente interiore acutiore, exteriore tenuiore; posticæ flavescens-albæ, venis margineque apicali fuscescentibus.

Hemiceras violascens, *Guen. Noct.* ii. 384, 1243.

Brazil.

12. HEMICERAS VINICOSTA.

Cinerea; fasciculus frontis et palpi apice violaceo-ferruginei; abdomen nigricans, subtus albidum; alæ anticæ sericeæ, apud margines aurato olivaceo-fuscæ, costâ flavescens-cinerea rubido pulverulento lineata, lineâ transversa 1a obsoleta, 2a e punctis nigris; posticæ albidæ, subhyalinæ, venis margineque aurato-fuscis.

Hemiceras vinicosta, *Guen. Noct.* ii. 384, 1244.

Cayenne.

13. HEMICERAS? MEONA.

Cervina; alæ anticæ fascia latissima antice dilatata nigricante marginata et bimaculata, striga apicali maculaque apud angulum interiorem nigricantibus; posticæ cinereæ, margine venisque cervinis, macula postica cervina intus nigro marginata.

Phalæna-Noctua Meona, *Cram. Pap. Exot.* iv. 132, pl. 358, f. B;
v. pl. 23, f. 7.

Hemiceras Meona, *Guen. Noct.* ii. 385, 1246.

Surinam.

14. HEMICERAS METASTIGMA.

Mas. *Cervina, subtus albida; abdomen pallide cervinum; alæ anticæ lineis duabus transversis indistinctis e guttis nigris, margine exteriori perobliquo vix convexo, interiore vix excavato; posticæ albæ, margine pallide cervino, macula postica saturatiore.*

Male. Fawn-colour, whitish beneath. Abdomen pale fawn-colour. Fore wings with two indistinct transverse lines composed of black dots; exterior border hardly convex, very oblique; interior border hardly excavated. Hind wings white, with a pale fawn-coloured border, and with a more distinct fawn-coloured mark by the interior angle. Length of the body 7 lines; of the wings 16 lines.

a. Venezuela. From Mr. Dyson's collection.

15. HEMICERAS LEUCOSPILA.

Mas. *Pallide cervina, subtus albida; antennæ basi supra nigrae subtus albæ; thorax tegulis obscurioribus; alæ anticæ lineis duabus obliquis postice approximatis cervinis, reniformi e gutta nigricante, margine interiore non excavato; posticæ albæ, renis margineque cervinis.*

Male. Pale fawn-colour, whitish beneath. Antennæ black above and white beneath at the base. Lappets of the thorax darker fawn-colour. Fore tibiæ above and fore tarsi ferruginous. Fore wings with two oblique fawn-coloured lines; the exterior one extending from the tip of the wing, and much more oblique than the interior one, which it approaches on the interior border; reniform spot represented by a blackish dot; exterior border hardly convex, very oblique; interior border not excavated. Hind wings white; veins and border fawn-colour. Length of the body 9 lines; of the wings 20 lines.

a. Santarem. From Mr. Bates' collection.

Country unknown.

16. HEMICERAS SABIS.

Cinerascens; alæ anticæ sericeæ, fascia nebulosa submarginali aurato-fusca, lineis duabus transversis denticulatis fere e punctis nigris, macula vaga discali, margine exteriori sinuato, interiore subexcavato; posticæ albæ, venis margineque apicali aurato-fuscis.

Hemiceras Sabis, *Guen. Noct.* ii. 385, 1245.

Genus 4. WESTERMANNIA.

Corpus sat robustum. Proboscis mediocris. Palpi longi, graciles, oblique ascendentes; articulus 2us arcuatus; 3us gracilis, cylindricus, 2i dimidio non brevior. Antennæ graciles, simplices, corporis dimidio longiores. Thorax dense vestitus, pilis squamosis arcte applicatis. Abdomen oblanceolatum, alas posticas vix superans. Pedes sat validi; tibiæ posticæ calcaribus longissimis. Alæ anticæ nitentes, sat latæ, margine exteriori subconvexo, interiore vix excavato.

Westermannia, *Hübner. Verz. Schmett.* 250.

Plusiodes, *Guen. Noct.* ii. 385.

Body moderately stout. Proboscis moderately long. Palpi long, slender, obliquely ascending; second joint curved; third slender, cylindrical, full half the length of the second. Antennæ slender, simple, rather more than half the length of the body. Thorax thickly clothed; hairs squamose, closely applied. Abdomen oblanceolate, hardly extending beyond the hind wings. Legs moderately stout; hind tibiæ with very long spurs. Fore wings shining, moderately broad, straight in front, rounded at the tips, slightly convex and moderately oblique along the exterior border; interior border hardly excavated.

1. WESTERMANNIA SUPERBA.

Testacea; caput album; alæ anticæ argenteo-albidæ, maculis tribus discalibus contiguis albo marginatis margineque lato exteriori aurato-cervinis, margine interiore testaceo; posticæ purpureo subauratæ, ciliis pallidis.

Westermannia superba (*Noctua semigeometra*, *Plusia inscripta*).
Hübner. Samml. Exot. Schmett. ii. 23, 162, f. 323, 324; *Verz.*
Schmett. 250, 2470.

Plusiodes Westermannii, *Guen. Noct.* ii. 386, 1247.

Java.

a. Ceylon. Presented by R. Templeton, Esq.

b, c. Hindostan. From Mr. Milne's collection.

Genus 5. ACHANTODES.

Corpus vix robustum. Proboscis mediocriter longa. Palpi ascendentes, caput paullo superantes; articulus 2us subarcuatus; 3us longi-conicus, 2i dimidio brevior. Antennæ simplices, subcompressæ, corporis dimidio non longiores. Thorax squamosus. Abdomen alas posticas non superans. Pedes graciles, non pilosi; tibiæ posticæ calcaribus longissimis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice acutæ et falcatæ, margine exteriore valde convexo.

Achantodes, *Guen. Noct.* ii. 387, 1248.

Body hardly stout. Proboscis of moderate length. Palpi ascending a little above the head; second joint slightly curved; third elongate-conical, less than half the length of the second. Antennæ simple, slightly compressed, not more than half the length of the body. Thorax squamose. Abdomen not extending beyond the hind wings. Legs slender, not pilose; hind tibiæ with extremely long spurs. Wings moderately broad. Fore wings straight in front, acute and falcate at the tips; exterior border very convex, its hind part moderately oblique.

This genus should be removed to the *Pyrallites*.

1. ACHANTODES CERUSICOSTA.

Pallide cervina, subtus alba; abdominis segmenta marginibus posticis albis, quatuor apud discum nigris; alæ anticæ sericeæ, costa argenteo-alba, lineis duabus transversis angulosis lunulaque intermedia nigricantibus, punctis marginalibus nigris; posticæ albæ, margine apicem versus cervino, guttis duabus marginalibus nigricantibus.

Achantodes cerusicosta, *Guen. Noct.* ii. 387, 1248.

Colombia.

a, b. Venezuela. From Mr. Dyson's collection.

Genus 6. LYMPHORTA.

Mas. Corpus vix validum. Proboscis breviuscula. Palpi compressi, oblique ascendentes; articulus 2us pilosus; 3us cylindricus, 2i triente non longior. Antennæ pectinatæ, corporis dimidio longiores, apices versus simplices. Abdomen alas posticas paullo superans. Pedes vix robusti; tibiæ late ciliatæ, posticæ calcaribus longissimis. Alæ sat angustæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore valde obliquo.

Male. Body hardly stout. Proboscis rather short. Palpi compressed, obliquely ascending to a little higher than the vertex; second joint stout, pilose; third slender, cylindrical, not more than one-third of the length of the second. Antennæ pectinated to three-fourths of the length, much more than half the length of the body. Abdomen extending to one-third of its length beyond the hind wings. Legs somewhat slender; tibiæ broadly fringed; hind tibiæ with very long spurs. Fore wings rather narrow, straight along the costa, somewhat rounded at the tips, very oblique along the exterior border.

This genus has some affinities with the *Pyrallites*.

1. LYMPHORTA UNILINEA.

Male. *Pallidissime cervina, subtus cervino-albida; abdomen æneo nitens; alæ fusco subconspersæ, linea una obliqua recta fusca, punctis marginalibus nigris; posticæ intus cervino-albidæ, subtus gutta discali fusca.*

Male. Very pale fawn-colour, beneath whitish, with a slight tinge of fawn-colour. Abdomen paler than the thorax, with a slight æneous tinge. Wings minutely speckled with brown, adorned with a straight oblique brown line; a row of indistinct very minute brown streaks on the veins, nearly parallel to the line and to the black-dotted exterior border. Hind wings much paler within the line; under side with a brown discal dot. Length of the body $5\frac{1}{2}$ lines; of the wings 12 lines.

Valley of the Amazon. In Mr. Saunders' collection.

Fam. 7. HYBLÆIDÆ.

Structura varia. Proboscis tenuis. Palpi porrecti, lati, compressi, rostrum fingentes. Caput longe superantes. Antennæ graciles, simplices. Thorax squamosus. Abdomen alas posticas non aut vix superans. Pedes calcaribus longis. Alæ integræ, latiusculæ aut sat latæ, non angulatæ.

Hyblæidæ, *Guen. Noct.* ii. 388.

Structure various. Proboscis slight. Palpi porrect, extending far beyond the head; second joint broad, compressed. Antennæ simple, slender. Thorax with squamose hairs. Abdomen not or hardly extending beyond the hind wings. Tibiæ with long spurs. Wings generally rather broad, not excavated nor angular.

- | | | | | |
|----------------------------|---|---|---|---------------------------|
| A. Antennæ medio dilatatæ. | - | - | - | 1. PHYCODES, <i>Guen.</i> |
| B. Antennæ non dilatatæ. | | | | |
| A. Pedes pilosi. | - | - | - | 2. HYBLÆA, <i>Guen.</i> |
| B. Pedes non pilosi. | - | - | - | 3. NOLASENA, <i>Walk.</i> |

Genus 1. PHYCODES.

Corpus robustum. Proboscis gracilis, breviuscula. Palpi caput non superantes; articulus 3us parvus, linearis, 2i dimidio brevior. Antennæ compressæ, apud medium subdilatatæ, corporis dimidio paullo longiores, articulis arcte applicatis. Thorax lævis, pilis squamosis arcte applicatis. Abdomen depressum, latiusculum, alas posticas perpaullo superans. Pedes validi; tibiæ posticæ calcaribus robustis. Alæ anticæ angustæ, apud costam rectæ, apice rectangulatæ, margine exteriore non obliquo, angulo interiore subrotundato.

Phycodes, *Guen. Noct.* ii. 389.

Body stout. Proboscis slender, rather short. Palpi not extending beyond the head; third joint small, linear, not half the length of the second. Antennæ a little more than half the length of the body, compressed, slightly dilated in the middle; joints closely applied to each other. Thorax with smooth, squamose, closely applied hairs. Abdomen rather broad and flat, extending very little beyond the hind wings. Legs stout; hind tibiæ with stout spurs. Fore wings narrow, straight in front, rectangular at the tips, not oblique along the exterior border; interior angle slightly rounded.

1. PHYCODES HIRUDINICORNIS.

Cinereo-cuprea, subtus alba; palpi albi, apice nigri; antennæ nigrae; abdomen nigro-purpureum, segmentis flavo marginatis; pedes nigri, albo fasciati; alæ anticæ fascia, strigis duabus discalibus exterioribus maculisque costalibus nigricantibus; posticæ nigro-purpureæ, strigis duabus basalibus ciliisque luteis.

Phycodes hirudinicornis, Guen. Noct. ii. 389, 1249.

Hindustan.

Genus 2. HYBLÆA.

Corpus robustum. Caput minimum. Proboscis brevis. Palpi validi, pilosi, porrecti, arcte applicati, rostrum breve fingentes; articulus 3us parvus. Antennæ graciles, setaceæ, corporis dimidio paullo breviores. Thorax valde robustus, dense vestitus, pilis arcte applicatis. Abdomen alas posticas non superans. Pedes validi; tibiæ posticæ dense fasciculatæ, calcaribus robustis. Alæ anticæ mediocriter latæ, apud costam rectæ, apice angulatæ, margine exteriori subobliquo subconvexo, angulo interiore rotundato.

Hyblæa, Fabr. Ent. Syst. iii. 2, 127; Esp. Naturf.; Guen. Noct. ii. 390.

Euschesia, p., Hübn. Verz. Schmett. 221.

Heliothis, p., Boisd.

Body stout. Head very small. Proboscis short. Palpi stout, pilose, porrect, closely applied together, and appearing like a rostrum; third joint small. Antennæ slender, setaceous, a little less than half the length of the body. Thorax very robust, thickly clothed; the hairs smooth and closely applied. Abdomen not extending beyond the hind wings. Legs stout; hind tibiæ thickly tufted, with stout spurs. Fore wings moderately broad, straight in front, angular at the tips, slightly convex and oblique along the exterior border; interior angle rounded.

1. HYBLÆA PUERA.

Fusco-cinerea, subtus testacea; abdominis segmenta testaceo marginata; alæ anticæ fusco maculatæ; posticæ nigro-fuscæ, fasciis duabus abbreviatis incisiss luteis rufo marginatis.

- Phalæna-Noctua Puera, *Cram. Pap. Exot.* ii. 10, pl. 103, f. D, E.
 Noctua Saga, *Fabr. Mant. Ins.* ii. 137, 29.
 Hyblæa Saga, *Fabr. Ent. Syst.* iii. 2, 128, 4; *Naturf.* 201, pl. 4, f. 10, 11.
 Noctua Unxia, *Hübner. Eur. Schmett. Noct.* f. 513.
 Euschesia Unxia, *Hübner. Verz. Schmett.* 221, 2217.
 Heliothis apicans, *Boisd. Faune Ent. Mad. Bomb. et Maur. Lép.* 98, 2, pl. 15, f. 7.
 Hyblæa Puera, *Guen. Noct.* ii. 390, 1250.
- a. Jamaica.
 b—d. St. Domingo. From Mr. Tweedie's collection.
 e. Honduras. From Mr. Dyson's collection.
 f. Ceylon. Presented by R. Templeton, Esq.
 g. Nepaul. Presented by W. W. Saunders, Esq.
 h. Hindostan. From Archdeacon Clerk's collection.
 i—k North Hindostan. From Mr. Stevens' collection.
 l. North Hindostan. From Mr. James' collection.
 m. North Hindostan. Presented by General Hearsay.
 n. South Africa. Presented by Dr. A. Smith.
 o. China. From Mr. Milne's collection.
 p—r. ———? From Mr. Milne's collection.
 s. ———? Presented by E. Doubleday, Esq.

2. HYBLÆA CONSTELLATA.

Cinereo-cuprea, subtus testacea; abdomen segmentis testaceo marginatis, ventre rufo; alæ anticæ fæminæ plaga obliqua discali fasciæque obliqua exteriori flavis, macula costali alba; posticæ nigro-cupreæ, maculis quatuor luteis, subtus rufo-luteæ aut rufæ nigro variæ.

Hyblæa constellata. Guen. Noct. ii. 391, 1251.

- a. Ceylon. Presented by R. Templeton, Esq.
 b—e. Silhet. From the Rev. J. Stainforth's collection.
 f, g. Silhet. Presented by E. Doubleday, Esq.
 h, i. Silhet.

3. HYBLÆA TORTRICOIDES.

Ferruginosa; caput et thorax anticus nigra; alæ anticæ nigro fuscoque variæ; posticæ plaga antica ciliisque luteis.

Hyblæa tortricoides, *Guen. Noct.* ii. 391, 1252.

a. Borneo. From Mr. Wallace's collection.

4. *HYBLÆA FIRMAMENTUM*.

Nigricans; caput subtus pectusque alba; prothorax tegulis humerisque ferrugineis; abdomen subtus fasciis interruptis albis; alæ anticæ ferrugineæ, nigro punctatæ, incisura subapicali nigro ciliata, plaga maxima trigona basali postica strigaeque lata costali exteriore nigricantibus, subtus maculis duabus costalibus margineque interiore pallide flavis; posticæ maculis duabus pilis interioribus ciliisque ex parte pallide flavis, subtus maculis plurimis pallide flavis.

Hyblæa firmamentum, *Guen. Noct.* ii. 392, 1253.

China.

a. Silhet.

b—e. Silhet. Presented by E. Doubleday, Esq.

f. ———? From Mr. Stevens' collection.

Genus 3. *NOLASENA*.

Statura parva. Corpus vix robustum. Proboscis mediocris. Palpi validi, porrecti, compressi, caput longe superantes; articulus 2us latus; 3us lanceolatus, 2i dimidio non longior. Antennæ graciles, simplices, corporis dimidio longiores. Thorax lævis, squamosus. Abdomen alas posticas vix superans. Pedes graciles, non pilosi, calcaribus longissimis. Alæ anticæ mediocriter latæ, apud costam subrectæ, apice subrotundatæ, margine exteriore vix obliquo.

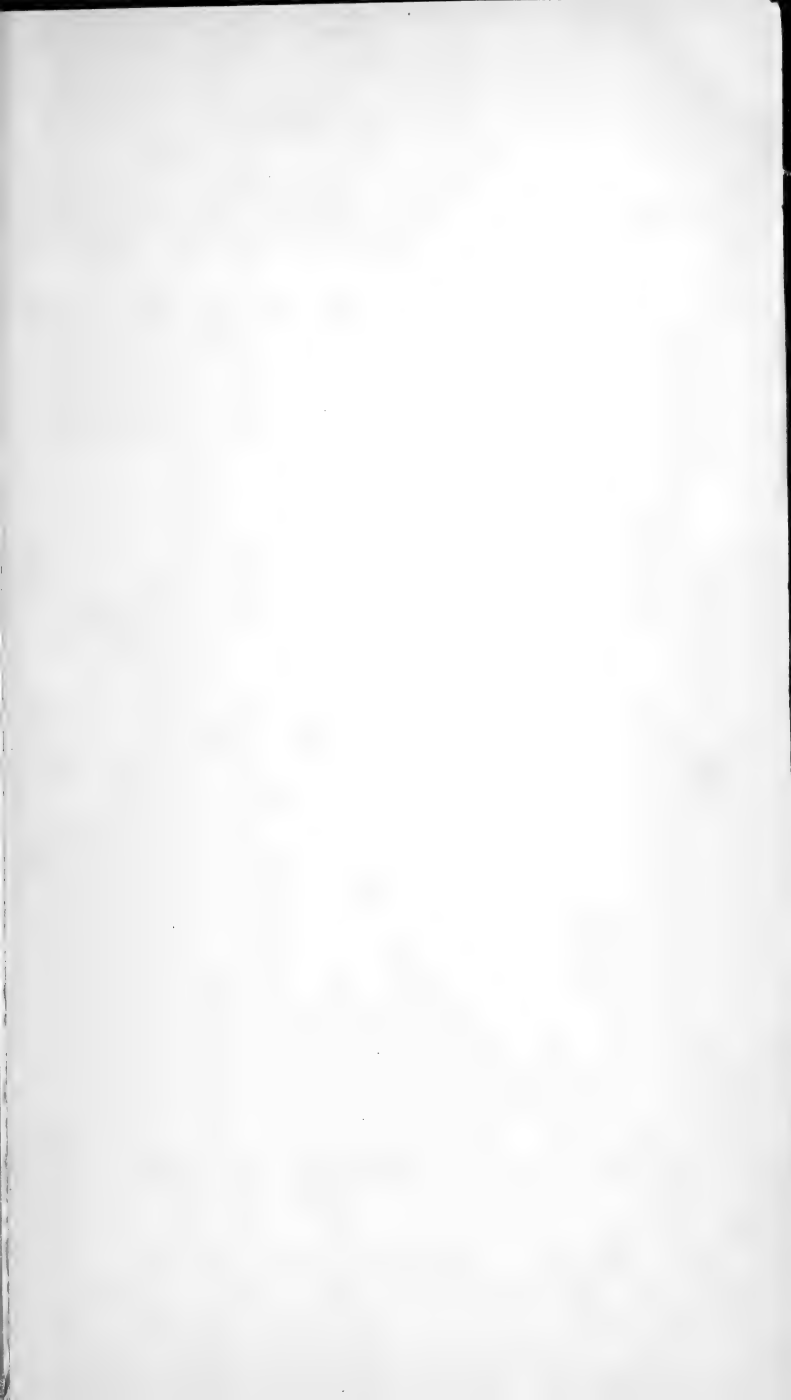
Size small. Body hardly stout. Proboscis moderately long. Palpi stout, porrect, compressed, extending far beyond the head; second joint broad; third lanceolate, not more than half the length of the second. Antennæ slender, simple, more than half the length of the body. Thorax smooth, with squamose hairs. Abdomen hardly extending beyond the hind wings. Legs slender, not pilose; spurs very long. Wings moderately broad. Fore wings almost straight in front, somewhat rounded at the tips, hardly oblique along the exterior border. This genus, in the structure of its palpi, much resembles *Hyblæa* and also the *Hypocalidæ*, which family are closely allied to the *Hyblæidæ*.

1. NOLASENA FERRIFERVENS.

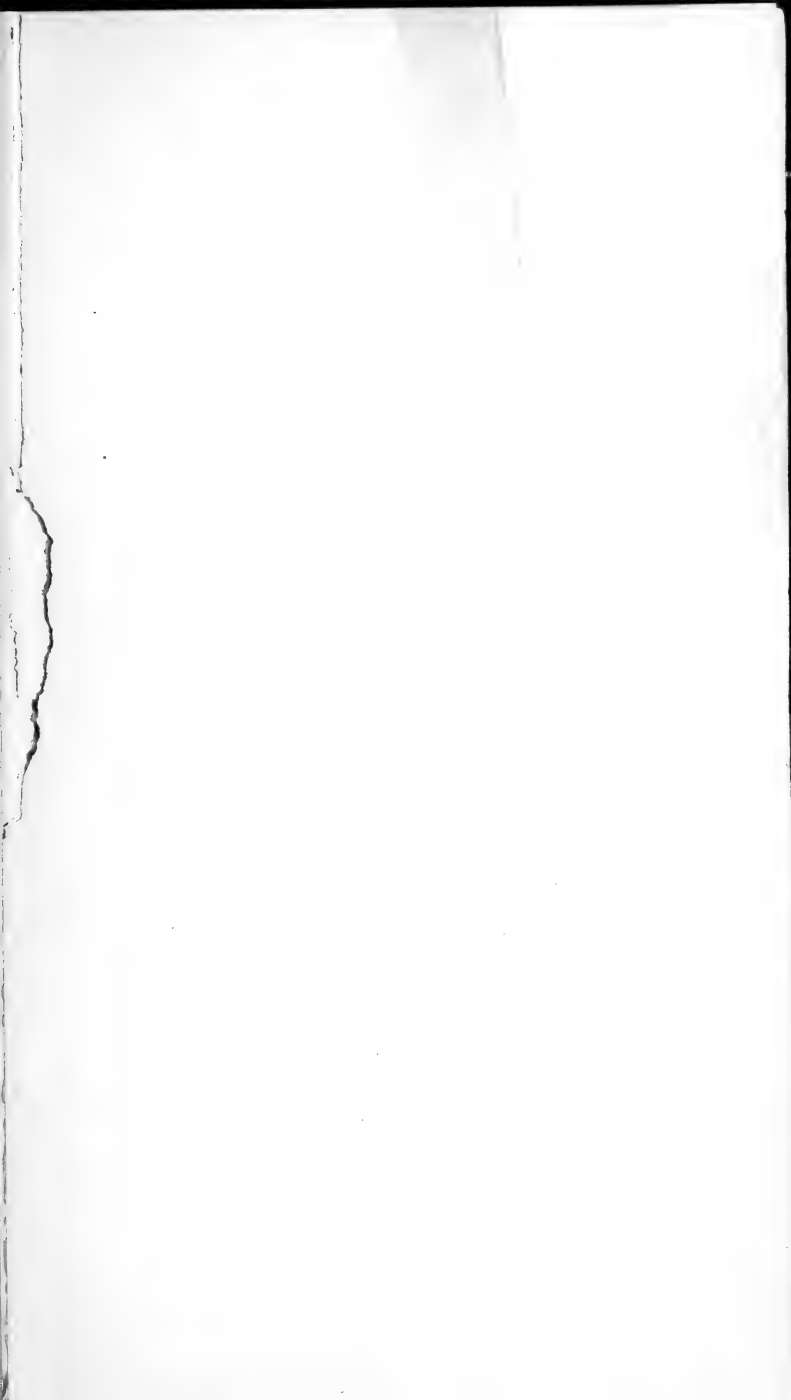
Pallide fusca, subtus alba; alæ anticæ fasciis tribus miniatis duabusque chalybeis, strigis submarginalibus rufescentibus, lunulis marginalibus nigris.

Fawn-colour. Pectus and legs whitish. Wings shining, slightly gilded. Fore wings with three oblique crimson bands; third band undulating and bordered with black on the outer side, which is connected with an undulating shining glaucous band; another glaucous band occupying the space between the first and second crimson bands; a row of slight red submarginal streaks and another of black marginal lunules. Length of the body 4 lines; of the wings 10 lines.

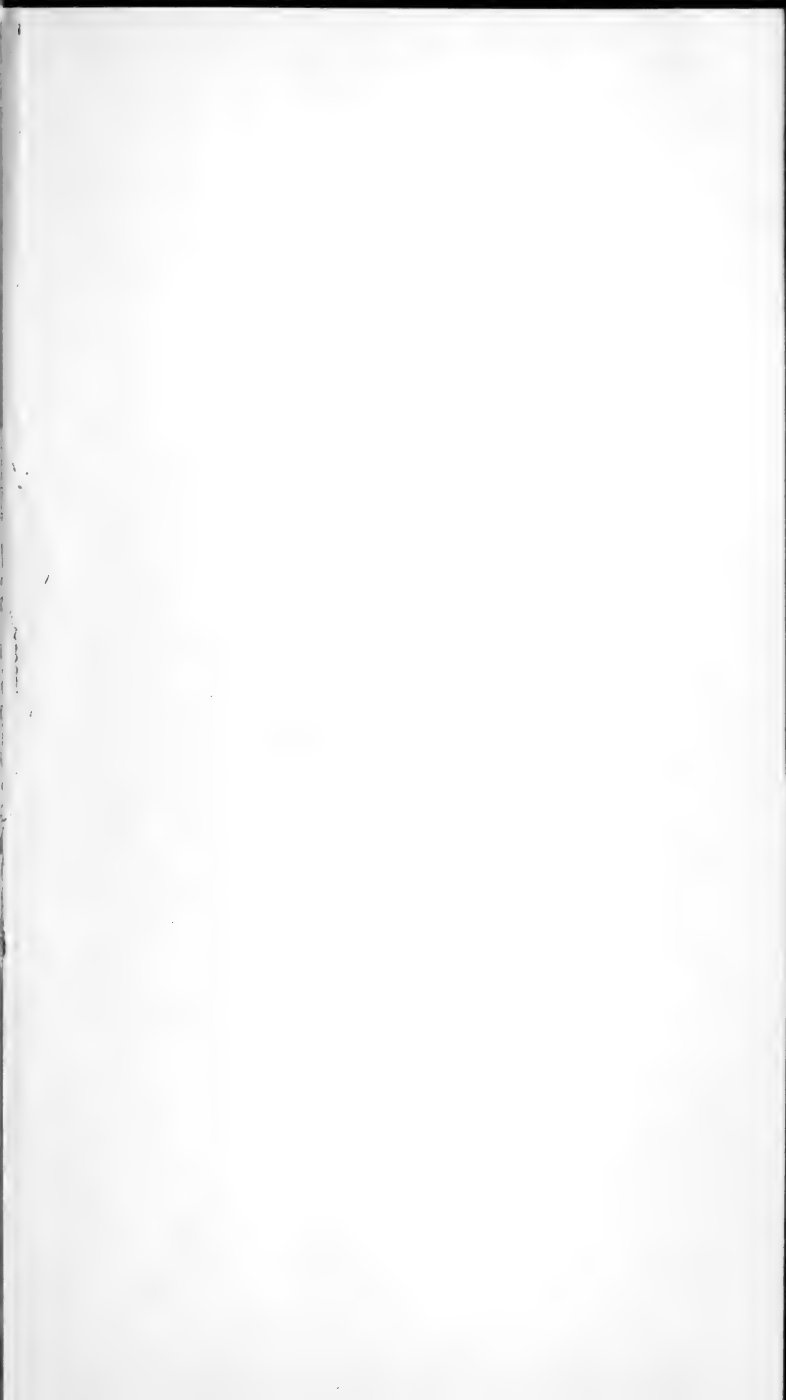
a. Ceylon. Presented by R. Templeton, Esq.



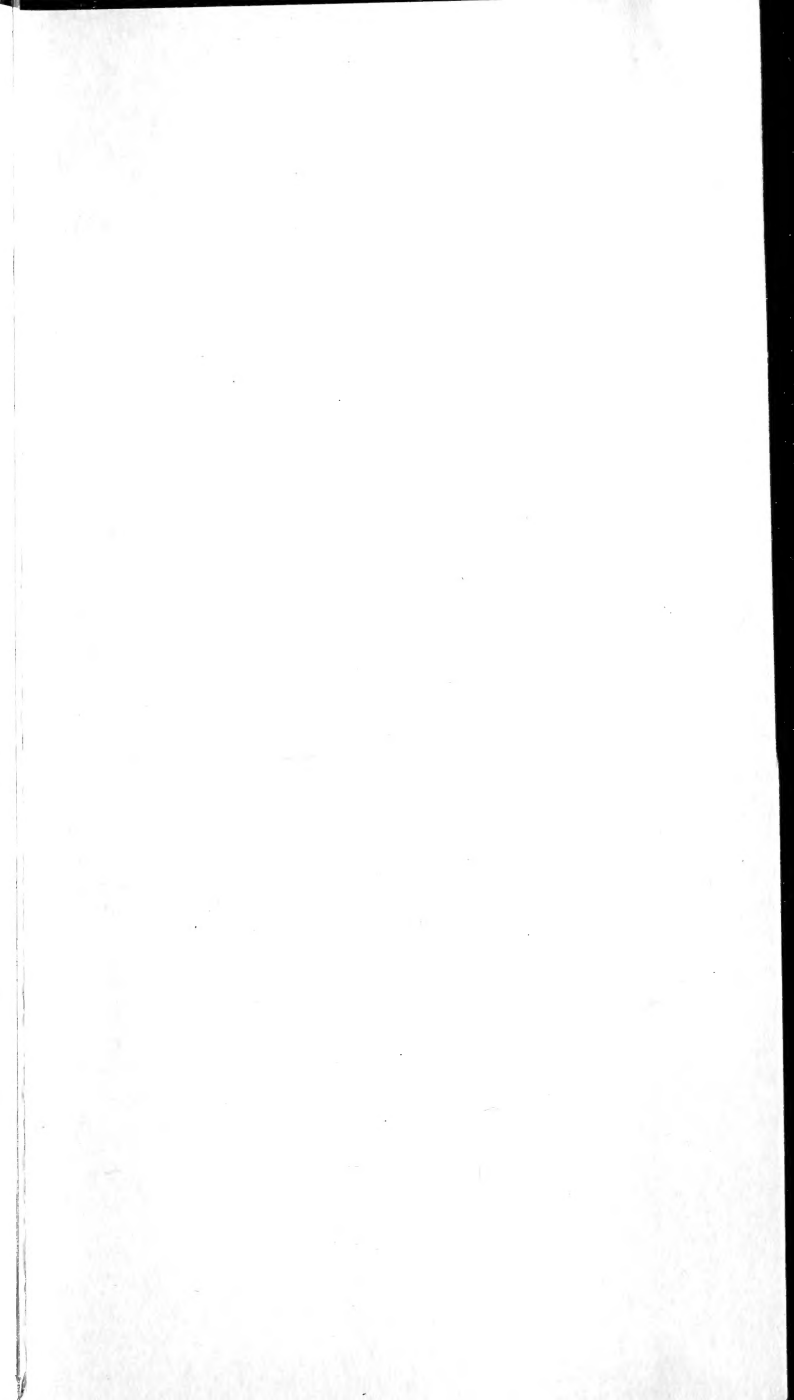




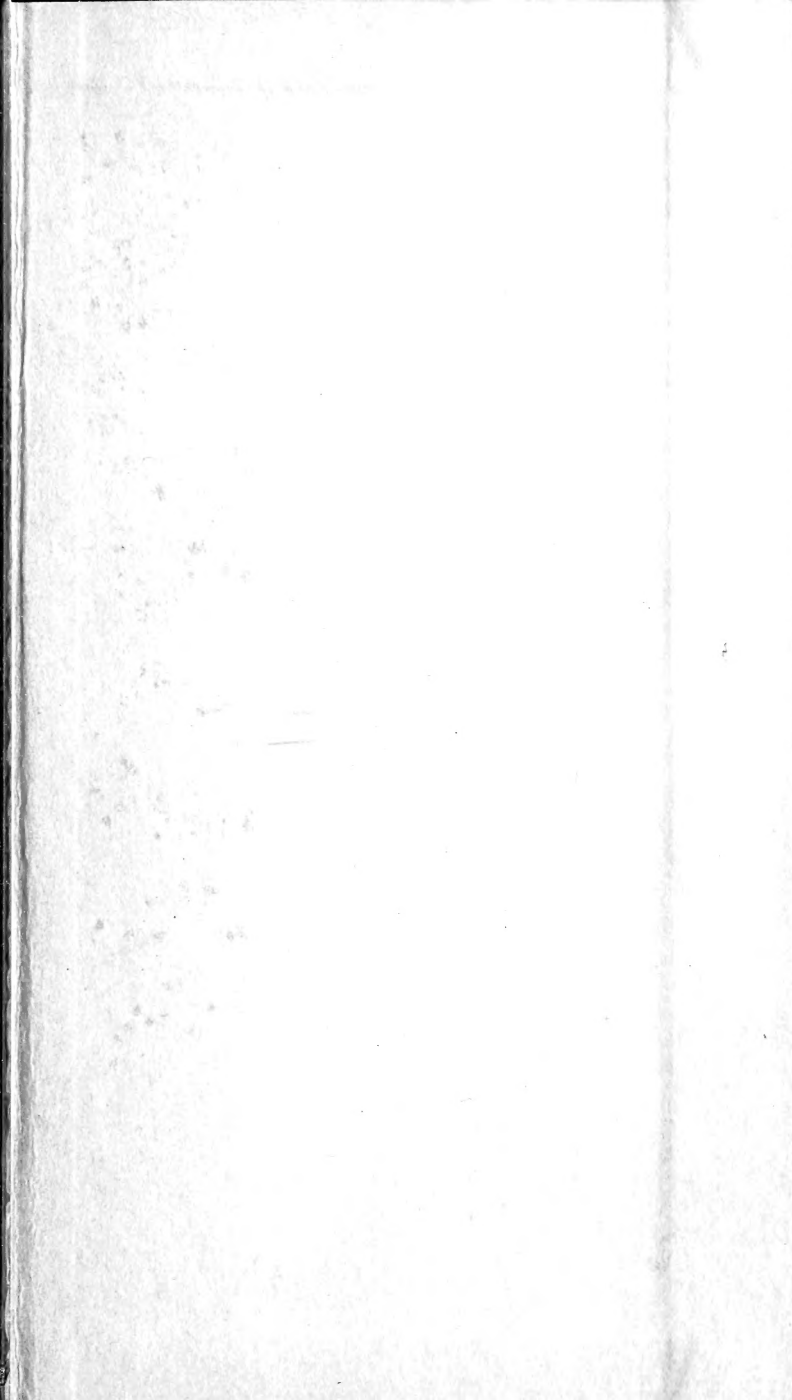
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